

Heart Sutra

Ancient Buddhist Wisdom  
in the Light of Quantum Reality

Commentary by Mu Soeng Sunim

-----  
Primary Point Press Cumberland, Rhode Island  
Copyright 1991 by Mu Soeng Sunim  
All rights reserved.

No part of this book may be reproduced without permission of  
the publisher.

First edition, 1991 Second printing, 1992

Electronic edition 1993, distributed by DharmaNet  
International with permission of publisher.

Library of Congress Cataloging-in-publication data pending.

ISBN 0-942795-04-0

Primary Point Press

528 Pound Road

Cumberland, RI 02864

(401) 658-1476 Fax (401) 658-1188  
-----

Acknowledgements

=====

Many thanks to Richard Shrobe, Adria Evans, Sam Rose, Kathy Diehl and Richard Streitfeld for reading the manuscript and their valuable comments. Special thanks to J.W. Harrington for help with typesetting and production of this book.

Permissions:

Acknowledgement is made to the following for their kind permission to use materials from their publications:

Selections from *The Tao of Physics*, Copyright 1975  
Frithjof Capra. Reprinted by permission of the  
publisher.

Selections from *The Silent Pulse*, Copyright 1978 George  
Leonard. Reprinted by permission of the author.

Selections from *Creative Meditation and  
Multi-Dimensional Consciousness*, Copyright 1976 Lama  
Angarika Govinda. Reprinted by permission of the  
publisher.

Selections from *The Buddhist Teaching of Totality*,  
Copyright 1971 The Pennsylvania State University  
Press. Reprinted by permission of the publisher.

Selections from *Ancient Wisdom and Modern Science*,  
Copyright 1984 State University of New York Press.  
Reprinted by permission of the publisher.

Selections from *The Heart of Understanding*, Copyright  
1988 Thich Nhat Hanh. Reprinted by permission of the  
publisher.

## Introduction

=====

At the heart of each of us, whatever our imperfections, there exists a silent pulse of perfect rhythm, a complex of wave forms and resonances, which is absolutely individual and unique, and yet which connects us to everything in the universe. The act of getting in touch with this pulse can transform our personal experience and in some way alter the world around us.[1]

The convergence between science and mysticism, between Eastern thought and Western pragmatism, and the consequent emergence of a new paradigm in recent times, offers a renewed hope that we may yet be able to transform ourselves and the world around us. The dangers of failing to do so are readily apparent, mostly in the near-destruction of the ecological system of the planet. There are many tools of transformation but the only place where transformation really takes place is in the human heart. The ancient traditions of the East have always sought to understand the nature of reality within one's own heart. It is not an accident that the Chinese word hsin stands for Heart-Mind. In the Eastern way of looking at things, the thinking-feeling process is a unified field, in contrast to the Cartesian dualism of the western scientific mind. Human experience has shown that the heart-mind, being deeply conditioned, is not an easy place for conflicts to be resolved. This was brought out most vividly in the intense emotional and even existential crisis which the pioneers of quantum physics (the post-Einsteinian branch of physics that deals with the molecular structure of organisms at the subatomic level) underwent before they could accept the intellectual findings of their own experiments.

The Heart Sutra, an ancient scripture from the Mahayana wisdom schools of Buddhism, is an insight into the nature of ultimate reality through intuitive wisdom. The spaciousness of this insight allows the heart to beat in its naturalness, beyond disputations and ideological arguments. Now that quantum physics has found some very interesting parallels to the basic insights of the Heart Sutra, perhaps the intellectual and the intuitive can meet in the new paradigm. At the same time, while this commentary offers to view the insights of Mahayana Buddhism in the light of quantum physics, it carries no suggestion that the two are complementary or interchangeable. They are, at best, two entirely different orders of reality, each reflecting completely different underlying processes that happen to converge. In his pioneering book, *The Tao of Physics*, Frithjof Capra has observed:

The conception of physical things and phenomena as transient manifestations of an underlying fundamental entity is not only a basic element of quantum field theory, but also a basic element of the Eastern world view ... the intuition behind the physicist's interpretation of the subatomic world, in terms of the quantum field, is closely

paralleled by that of the Eastern mystic who interprets his or her experience of the world in terms of an ultimate underlying reality.

Buddhists express the same idea when they call **the ultimate reality Sunyata--"Emptiness"** or "the void"--and affirm that it is a living Void which gives birth to all forms in the phenomenal world .... Thus the Void of the Eastern mystic can easily be compared to **the quantum field of subatomic physics**. Like the quantum field, it gives birth to an infinite variety of forms which it sustains and, eventually, reabsorbs.[2]

The effort in this commentary is to see this convergence in a creative light, knowing fully well that after convergence the two orders of reality separate again and their underlying processes take a different turn. Above all, **this commentary on the Heart Sutra is offered in the spirit of a Zen practitioner**. This commentary arose out of my own need, and presumably the need of like-minded Zen students, to understand the historical and doctrinal background of this seminal document. At the same time, I wanted to be careful not to get caught in the minutiae of academic analysis and turn this commentary into yet another doctrinal point of view. In the present approach, the focus is not on doctrinal orthodoxy, but rather on creating a radical new understanding of an ancient teaching, and to understand this core teaching of Mahayana Buddhism in the light of new perspectives on reality and a new model of the universe set forth by quantum physics. Since the teaching of the Heart Sutra is centered around an insight into "emptiness," the Sanskrit word sunyata is used here throughout rather than its quite inadequate English translation. It is thus hoped that the inherent vibrancy of sunyata which has infused the spirit of Mahayana for the last two thousand years will emerge in the following commentary. Since the developed tradition of Zen bears the imprint of sunyata throughout, it is hoped as well that readers will approach this commentary through the prism of their meditation practice, and that the vibrancy of their practice will find resonance in the insights of the sutra. As Edward Conze has remarked,

It cannot be the purpose of a commentary to convey directly to the reader the spiritual experiences which a sutra describes. They only reveal themselves to persistent meditation. A commentary must be content to explain the words used.[3]

A note on the English translation of the sutra:

=====

There are many translations of the Heart Sutra now being used by various Zen communities in the United States. The translation used here is the one used by Kwan Um School of Zen and its member groups, with its head temple at Providence Zen Center.

## The Maha Prajna Paramita Hridaya Sutra

=====

Avalokitesvara Bodhisattva when practicing deeply the Prajna Paramita perceives that all five skandhas are empty and is saved from all suffering and distress.

Sariputra, form does not differ from emptiness, emptiness does not differ from form. That which is form is emptiness, that which is emptiness form. The same is true of feelings, perceptions, impulses, consciousness.

Sariputra, all dharmas are marked with emptiness. They do not appear or disappear, are not tainted or pure, do not increase or decrease. Therefore, in emptiness, no form, no feelings, perceptions, impulses, consciousness. No eyes, no ears, no nose, no tongue, no body, no mind, no color, no sound, no smell, no taste, no touch, no object of mind, no realm of eyes and so forth until no realm of mind consciousness. No ignorance and also no extinction of it and so forth until no old age and death and also no extinction of them.

No suffering, no origination, no stopping, no path, no cognition, also no attainment with nothing to attain.

The Bodhisattva depends on Prajna Paramita and the mind is no hindrance. Without any hindrance, no fears exist. Far apart from any perverted views, one dwells in Nirvana.

In the three worlds, all Buddhas depend on Prajna Paramita and attain Anuttara Samyak Sambodhi.

Therefore, know that Prajna Paramita is the great transcendent mantra, is the great bright mantra, is the utmost mantra, is the supreme mantra which is able to relieve all suffering and is true not false. So proclaim the Prajna Paramita mantra, proclaim the mantra which says:

Gate, Gate, Paragate, Parasamgate, Bodhi Svaha.

## Historical Background Of The Sutra

=====

The term **Buddhism**, used generically and rather loosely, is best understood as an ever-evolving phenomenon with three distinct aspects to its history:

- 1) **the original teachings of the historical person Siddhartha Gautama who became the Buddha**, the Awakened One: the Four Noble Truths, including the Eightfold Path, and the Chain of Dependent Origination. There is a fair historical consensus on the authenticity of these teachings and the teacher;
- 2) **the Buddhist Tradition**, by which is meant the developed

doctrines such as the Abhidharma canon of the Hinayana tradition, and the sutras (sermons attributed to the Buddha) and sastras (commentaries on the sutras) of the Mahayana tradition whose composition and compilation took place over a period of a thousand years after the death of the Buddha, and

3) the Buddhist Religion, which includes a smorgasbord of bewildering and seemingly contradictory practices and beliefs ranging from the marathoning monks of Mt. Hiei in Japan to the devotees of Pure Land and Nichiren sects in East Asia to the laity supporting the forest-monks in Thailand and Sri Lanka.

The Heart Sutra, or the "Prajnaparamita Hridaya Sutra," to give it its proper Sanskrit name, belongs to the Buddhist tradition, and is probably the best known of the Mahayana sutras. It is chanted daily in the Buddhist monasteries of China, Japan, Korea, Tibet and in the West. This very short sutra (containing about fourteen verses in Sanskrit and 260 characters in Chinese) is a basic text of Zen tradition and is considered to contain the essence of all Mahayana wisdom schools.

Zen (Ch'an) began in China as a meditation school of Mahayana Buddhism and was partially shaped by its sutra literature. These sutras capture the dramatic fervor and religious aspirations of new movements in India that had broken away from the earliest forms of Buddhism (Hinayana), beginning, most likely, in the first century BCE. The Mahayana doctrine developed, religiously and philosophically, with the Bodhisattva ideal (which exhorted a practitioner to work for the liberation of all beings, however numberless, rather than striving just for one's own liberation) at its center, and the teaching of sunyatya (Emptiness) as its inspiration. D.T. Suzuki, the great facilitator between Zen tradition and the West, finds, in the psychology of the Bodhisattva, "one of the greatest achievements in the life of the spirit."

Several of the schools of Mahayana Buddhism are based on a group of sutras known as Prajnaparamita Sutras or the Sutras of Transcendent Wisdom. The earliest portions of these sutras go back to the period 100 BCE. to 100 CE; the Heart Sutra itself has been dated by Edward Conze at 350 CE.

The great Mahayana sutras form the center of Mahayana; in them the new religious inspiration is crystallized. A massive and imposing body of literature, the sutras differ greatly in content, but each and every one of them breathes the spirit of Mahayana. These widely scattered writings serve many religious communities. While individual sutras or groups of sutras take up particular themes, they concur and overlap at many points. Moreover, one and the same sutra can give rise to different religious movements. They are often accompanied by explanatory commentaries, or sastras.[4]

When Buddhism first moved from India to China in its Mahayana forms, it was known not as Buddhism but as the "Religion of Prajnaparamita" or, since the sutras of the Prajnaparamita

centered around the teaching of sunyata (somewhat loosely translated as emptiness or nothingness), as the "Religion of Nothingness."

The Heart Sutra is one of approximately 38 sutras in the Prajnaparamita group, and its shortest. In it, the dynamic vibrancy of sunyata and the cryptic delineation of its meaning have been captured with a radical economy of expression that has exercised a fascination over the minds of countless generations of Buddhist thinkers in India, China, Tibet and other lands where Mahayana Buddhism flourished. Some of the greatest thinkers in Buddhist history, among them Atisa, Fa-tsang, Kukai, and Hakuin have written commentaries on the Heart Sutra.

While it celebrates sunyata as a timeless truth, the Heart Sutra has also to be seen as a historical document, engaged in rivalry with the rationalist-schematic approach taken by earliest sects of Buddhism (designated as "Hinayana"--the lower vehicle--by its rivals.) In the centuries after Buddha's death, the Hinayana followers, with the encyclopedic Abhidharma as their literature, had created categories of analysis to the point where it became, in the words of Heinrich Dumoulin, the Zen historian, "a dishearteningly lifeless product without metaphysical elan...." Mahayana sutras thunder again and again against philosophers (Abhidharmists) who are disposed to freeze reality into a categorical permanence and to discriminate between subject and object.

In the still-solidifying tradition of Mahayana, the Heart Sutra is a key document demolishing all these categories, and pointing out that all categories are ultimately dualistic and not leading to wisdom essential for enlightenment. In the earliest stages of the formation of Mahayana, there were schools of thought which proposed the doctrine of the "five words" of the Buddha; meditations on these words alone have transcendent significance and the power to bring liberation (which, they claimed, was not the case with the rest of his discourses.) These five words are: non-soul (anatta), impermanence (anicca), unhappiness (dukkha), extinction (nirvana) and emptiness (sunyata).

The first four of these words are shared by the early Mahayanists commonly with the Hinayanists; it is with the inclusion of sunyata (emptiness) as the last of these words that early Mahayana asserts its difference with the Hinayana schools. For the Hinayanists, "emptiness" may be synonymous with the first word--non-self or non-soul--but its use was restricted in describing a person. Mahayana invention was not only to postulate sunyata (emptiness) as the essential emptiness of the phenomenal world, including the world within a person's mind; the thinkers of Mahayana took care to deny the existence of sunyata as yet another category. Thus we have the doctrine of sunyata-sunyata, the emptiness of emptiness. Sunyata is experienced as intuitive wisdom, and it is only through the intuitive wisdom of sunyata, the theme of Mahayana wisdom schools, that one is ferried across to the other shore of liberation.

The popularity of the Heart Sutra in

the Buddhist tradition lies not only in its brevity but also

in the elusiveness of its meaning. Distinguished commentators over the ages have discovered in it widely divergent interpretations which have led Edward Conze to observe that, "they tell us more what the text meant to them within their own culture than what the Indian original intended to convey." [5]

If that be the case, the divergent interpretations seem somehow quite appropriate since the elusive meaning of sunyata demands that each generation of Buddhist thinkers and practitioners in each culture come to grips with it through the praxis of their own experience.

The Heart Sutra has two versions, the longer and the shorter. The longer version has a prologue in which the Buddha enters into samadhi and an epilogue in which he rises from samadhi and praises the Bodhisattva Avalokitesvara. The shorter version, used here, begins without the prologue and has Avalokitesvara contemplating the meaning of the profound perfection of wisdom.

#### The Setting

=====

The Heart Sutra is preached on **Vulture Peak**, east of the ancient Indian city of Rajagraha, the capital of the kingdom of Magadha. Rajagraha, along with Sravasti, was one of the two major cities of ancient India most frequently visited by the Buddha during his **forty-five year teaching** career. The Vulture Peak is said to have been a favorite site of the Buddha, and here he gave a number of sermons to assemblies of monks and laypeople.

The rather unique prologue (of the longer version) introduces us to the leading characters of the sutra: Shakyamuni Buddha, Avalokitesvara Bodhisattva and Sariputra. The Buddha does not speak in the prologue, but enters into samadhi and silently empowers Sariputra to ask and Avalokitesvara to answer. The silence of the Buddha here is characteristic of much of Mahayana literature, and supports its classical view that the Buddha is "no longer simply the teacher but is transformed into the principle of enlightenment, a silent, eternal, numinous presence, the **dharmakaya**." [6]

The Heart Sutra is the only Prajnaparamita text in which the Bodhisattva Avalokitesvara appears. His (or her) presence here is significant on several counts: first, it attests to the relatively late date of the sutra, a time when the cult of the Bodhisattva of Compassion, textually associated with the twenty-fourth chapter of the Lotus Sutra and the sutras of the Pure Land School, had become well-established. Secondly, **the Heart Sutra is dedicated completely to the teaching of sunyata** without any reference whatever to the other major theme of the Prajnaparamita sutras: compassion (which traditionally includes upaya or the Skillful Means of the bodhisattva.) The absence of this theme is countered, implicitly, by the fact that **the wisdom essential for the attainment of Buddhahood is proclaimed by a bodhisattva who is said to be the embodiment of compassion.**

The presence of Sariputra is equally significant. The Heart Sutra does not inveigh against the Hinayana disciples of the Buddha, as is characteristic of the longer Mahayana sutras, in which the Hinayana disciples are considered inferior to the Bodhisattvas, both in their wisdom and in their aspiration to enlightenment. The presence of Sariputra here fulfills that function; Sariputra, in the Hinayana scriptures, is considered the wisest of the disciples of the Buddha, but here he comes across as perplexed and uninformed when asking Avalokitesvara how to practice the perfection of wisdom.

The Title: **Maha Prajna Paramita Hridaya Sutra**

=====  
Maha means great or large. Prajna means wisdom, more specifically intuitive wisdom. Paramita is commonly translated as "perfection" although, in a different etymological usage, it can also mean "that which has gone beyond" or "transcendent." Hridaya means "heart" but here, in the title of the sutra, it is used in the sense of a "core" or "essence" rather than a physical organ. Sutra is the spoken word; more specifically, in the Buddhist tradition, it is the sermon or the word spoken by the Buddha. Thus the full meaning of the title can be "the Great Heart of Perfect Wisdom" or "the Heart of Great Transcendent Wisdom." Or we may use poetic licence to translate it as "the Wisdom of the Great Heart of the Universe." That will certainly be in keeping with the insight offered by the sutra into sunyata as the core of the universe.

"Avalokitesvara Bodhisattva..."

=====  
Bodhi means being awake or enlightened; sattva means a living being, so bodhisattva means an awakened, enlightened being, a person who has diligently cultivated the qualities necessary to become a Buddha. Avalokitesvara is one of the celestial Bodhisattvas and an embodiment of compassion. In the Mahayana tradition, Avalokitesvara and Manjushri, who is the Bodhisattva of wisdom, represent the two core qualities--wisdom and compassion--necessary in the psychological life of a Bodhisattva.

"...when practicing deeply the Prajnapara-mita..."

=====  
In the prologue of the longer version of the sutra, this line presents the Buddha as being immersed in deep samadhi while the bodhisattva Avalokitesvara too is absorbed in contemplating the meaning of the perfection of wisdom. The statement is significant here in that the tradition insists that "a looking into" the nature of reality is not a matter of mere intellectual analysis (which the followers of Mahayana at times accused the Hinayana Abhidharmists of doing) but demands deep absorption so that awareness moves from the merely superficial to the profoundly intuitive. This is true for the celestial bodhisattva as it is for each one of us. In the Mahayana cosmology, "Prajnaparamita" (the perfection of wisdom) is a goddess who has been called "the

mother of the Buddhas"; her presence here can be interpreted either cosmologically or etymologically.

"...perceives that all five skandhas are empty..."

It is in this state of intuitive awareness that the bodhisattva perceives the five skandhas to be empty. Before we look at the term skandhas, it might be useful to deal first with the term "empty" since it is the central teaching, not only of the Heart Sutra but also of the entire Mahayana literature. A translation of the Sanskrit word sunyata into western languages has always been problematic. When translated as "void" or "emptiness," it has a nihilistic undertone, which is how the orientalist of the nineteenth century saw Buddhism and portrayed it accordingly. Fortunately our understanding of the term (and of Buddhism) has grown in recent decades and has outlasted the earlier malformed interpretations. Our current understanding of Buddhist meditative experiences has been greatly facilitated by the findings of quantum physics into the nature of ultimate reality; these findings have added a new dimension to our efforts to understand the meaning of the term sunyata and what it stands for.

For a very long time, the Newtonian/Cartesian scientific view of the world rested on the notion of solid, indestructible particles as the building blocks of matter and all life, moving in space and influencing each other by forces of gravitation and interacting according to fixed and unchangeable laws. This myth disintegrated under the impact of experimental and theoretical evidence produced by quantum physicists in the early decades of this century. The experiments of quantum physics showed that the atoms, the presumed fundamental building blocks of the universe, were, at their core, essentially empty. In experiments, subatomic particles showed the same paradoxical nature as light, manifesting either as particles or waves depending on how the experiment was set up. Quantum physicists, confronting the mysteries of the universe, were left facing Zen-like koans of their own: the sound of a quark, the shape of a resonance, the nature of strangeness!

Quantum physics has thus brought about a radical new understanding both of the particles and the void. In subatomic physics, mass is no longer seen as a material substance but is recognized as a form of energy. When a piece of seemingly solid matter--a rock or a human hand or the limb of a tree--is placed under a powerful electronic microscope:

the electron-scanning microscope, with the power to magnify several thousand times, takes us down into a realm that has the look of the sea about it... In the kingdom of corpuscles, there is transfiguration and there is samsara, the endless round of birth and death. Every passing second, some 2-1/2 million red cells are born; every second, the same number die. The typical cell lives about 110 days, then becomes tired and decrepit. There are no lingering deaths here, for when a cell loses its vital force, it somehow

attracts the attention of macrophage.

As the magnification increases, the flesh does begin to dissolve. Muscle fiber now takes on a fully crystalline aspect. We can see that it is made of long, spiral molecules in orderly array. And all of these molecules are swaying like wheat in the wind, connected with one another and held in place by invisible waves that pulse many trillions of times a second.

What are the molecules made of? As we move closer, we see atoms, the tiny shadowy balls dancing around their fixed locations in the molecules, sometimes changing position with their partners in perfect rhythms. And now we focus on one of the atoms; its interior is lightly veiled by a cloud of electrons. We come closer, increasing the magnification. The shell dissolves and we look on the inside to find...nothing.

Somewhere within that emptiness, we know is a nucleus. We scan the space, and there it is, a tiny dot. At last, we have discovered something hard and solid, a reference point. But no! as we move closer to the nucleus, it too begins to dissolve. It too is nothing more than an oscillating field, waves of rhythm. Inside the nucleus are other organized fields: protons, neutrons, even smaller "particles." Each of these, upon our approach, also dissolve into pure rhythm.

These days they (the scientists) are looking for quarks, strange subatomic entities, having qualities which they describe with such words as upness, downness, charm, strangeness, truth, beauty, color, and flavor. But no matter. If we could get close enough to these wondrous quarks, they too would melt away. They too would have to give up all pretense of solidity. Even their speed and relationship would be unclear, leaving them only relationship and pattern of vibration.

Of what is the body made? It is made of emptiness and rhythm. At the ultimate heart of the body, at the heart of the world, there is no solidity. Once again, there is only the dance. (At) the unimaginable heart of the atom, the compact nucleus, we have found no solid object, but rather a dynamic pattern of tightly confined energy vibrating perhaps 1022 times a second: a dance... The protons--the positively charged knots in the pattern of the nucleus--are not only powerful; they are very old. Along with the much lighter electrons that spin and vibrate around the outer regions of the atom, the protons constitute the most ancient entities of matter in the universe, going back to the first seconds after the birth of space and time.[7]

It follows then that in the world of subatomic physics there are no objects, only processes. Atoms consist of particles and these particles are not made of any solid material

substance. When we observe them under a microscope, we never see any substance; we rather observe dynamic patterns, continually changing into one another--a continuous dance of energy. This dance of energy, the underlying rhythm of the universe, is again more intuited than seen. Jack Kornfield, a contemporary teacher of meditation, finds a parallel between the behavior of subatomic particles and meditational states:

When the mind becomes very silent, you can clearly see that all that exists in the world are brief moments of consciousness arising together with the six sense objects. There is only sight and the knowing of sight, sound and the knowing of sound, smell, taste and the knowing of them, thoughts and the knowing of thoughts. If you can make the mind very focused, as you can in meditation, you see that the whole world breaks down into these small events of sight and the knowing, sound and the knowing, thought and the knowing. No longer are these houses, cars, bodies or even oneself. All you see are particles of consciousness as experience. Yet you can go deep in meditation in another way and the mind becomes very still. You will see differently that consciousness is like waves, like a sea, an ocean. Now it is not particles but instead every sight and every sound is contained in this ocean of consciousness. From this perspective, there is no sense of particles at all.[8]

Energy, whether of wave or particle, is associated with activity, with dynamic change. Thus the core of the universe--whether we see it as the heart of the atom or our own consciousness--is not static but in a state of constant and dynamic change. This energy--now wave, now particle--infuses each and every form at the cellular level. No form exists without being infused by this universal energy; form and energy interpenetrate each other endlessly in an ever-changing dance of the molecules, creating our universe. This universal energy is itself a process, beyond the confines of time and space; a form, on the other hand, is an "event," existing momentarily in time and space. This "moment" may last for seventy or eighty years in the case of a human being, a thousand years in the case of a sequoia tree, a few million years in the case of a mountain, but internally, at the cellular level, each of these forms is in a process of change at any given moment. In the paradigms of quantum physics, there is ceaseless change at the core of the universe; in the paradigms of Mahayana wisdom, there too is ceaseless change at the core of our consciousness and of the universe.

But change implies change from something to something else. Without something to be changed, there would be no change. Without forms, there would be no change; without the energy of change, the forms would not be able to hold their balance and would collapse. In meditation practice, we see this dynamic, constant change in our own mind-body system.

It has been just as difficult for the human mind to accept the existence of sunyata at the core of the universe as it was for the early quantum physicists to accept the quantum

randomness of the universe. Einstein had even hoped that the quantum theory he helped create was somehow flawed, hoping desperately, even in the face of the evidence of his own experiments, that there would be a hidden variable that would establish order in the quantum world. Later experiments, conducted at the University of California in Berkeley on Bell's theorem, confirmed the absence of any hidden variable, and showed that when either of two correlated particles were observed, no matter how far separated in space, the other was instantly affected by the observation--as if the two particles were embedded in the observing consciousness itself. Even before Bell's theorem, Werner Heisenberg, one of the founding fathers of quantum theory, formulated in his Uncertainty Principle that it is not possible to examine a situation or system without altering the system by the very act of examination; in the deepest experience of meditation, the object of consciousness is embedded in the observing consciousness; the two are fused together by the energy or sunyata out of which both emerge.

A strange place is this world of the new physicists, a world of ultimate connectedness, where consciousness--or observership, as John Wheeler calls it--coexisted with the creation, and where it might be said that the vastness of space, the nuclear conflagration of stars, the explosions of galaxies are simply mechanisms for producing that first glimmer of awareness in your baby's eyes.[9]

Subatomic particles, then, are dynamic patterns, processes rather than objects. Sunyata too is a dynamic pattern rather than an entity. Henry Stapp, an atomic physicist, has remarked, "An elementary particle is not an independently existing unanalyzable entity. It is, in essence, a set of relationships that reach outward to other things." [10]

Compare this to Nagarjuna (100-200 CE, the great Buddhist thinker whose dialectic of Madhyamika--the Middle Way--sought to define the experience of Mahayana wisdom): "Things derive their being and nature by mutual dependence and are nothing in themselves." [11]

Some commentators on Nagarjuna's formulation of the Middle Way--between being and non-being, between realism and nihilism--have translated sunyata as "devoidness" rather than emptiness or nothingness. Nagarjuna's thesis holds that despite the absence of all substance, qualities, or essential characteristics in all existing things in this changing world, there does remain the ineffable, final reality which can be seen only with the eye of intuitive wisdom (prajna). A quantum physicist may contend that this Final Reality can be intuited at the other end of an electronic microscope!

Thus our understanding of the word sunyata becomes a bit more clear. All forms are momentary in time and space; while the form lasts, it has validity (which is different from reality), but this appearance is transitory and illusory. Therefore, a more appropriate and accessible way to understand sunyata may be to apprehend it as "momentariness" or "transitoriness" rather than emptiness. Ancient Buddhism

recognized that all objects are fundamentally devoid of independent lasting substance (Sanskrit: svabhava). Instead the interplay of form and energy creates a transitory phenomenon which appears in time and space. Nagarjuna cautions us against the temptation to posit sunyata as a category and reminds us again and again that sunyata itself is empty (sunyata-sunyata). The only way to apprehend the dynamic nature of sunyata is through the transitory/momentary appearance of forms. If no forms were to be manifested through it, sunyata would be a dead, static mass but sunyata's function is to infuse the myriad forms. Thus, while sunyata itself is a process, the forms are a manifestation of that process and the process can be understood only through the momentary existence of the forms. It was in this sense of a dynamic, universal energy that ancient Mahayana Buddhism used the term sunyata.

In The Tao of Physics, Frithjof Capra makes a similar observation:

The phenomenal manifestations of the mystical Void, like the subatomic particles, are not static and permanent, but dynamic and transitory, coming into being vanishing in one ceaseless dance of movement and energy. Like the subatomic world of the physicist, the phenomenal world of the Eastern mystic is a world of samsara--of continuous birth and death. Being transient manifestations of the Void, the things in this world do not have any fundamental identity. This is especially emphasized in Buddhist philosophy which denies the existence of any material substance and also holds that the idea of a constant "self" undergoing successive experiences is an illusion.[12]

In Sanskrit, sunya means cipher or zero. In the West, a circle or a zero means nothingness. In Native American usage, a circle means coming together, a sharing. In Indian usage, a circle means totality, wholeness. As Garma C.C. Chang, the noted Buddhist scholar, has remarked,

Zero itself contains nothing, yet it cannot be held to be absolutely or nihilistically void. As a mathematical concept and symbol, zero has a great many functions and utilities, without which it would be practically impossible to execute business and scientific activities in this modern age. If someone asked you, "Is zero nothingness?" you would be hard pressed to give an appropriate reply. Zero is both nothing and the possibility of everything. It is definitely not something nihilistically empty, rather it is dynamic and vital to all manifestations. In the same way, sunyata does not mean complete nothingness; being "serenely vibrant," it has both negative and positive facets.[13]

In the same vein, Masao Abe, another noted contemporary Buddhist thinker, has remarked that for Nagarjuna emptiness was not non-being but "wondrous Being,"

precisely because it is Emptiness which "empties" even emptiness, true Emptiness (Absolute

Nothingness) is absolute Reality which makes all phenomena, all existents, truly be.[14]

Sunyata, then, carries and permeates all phenomena and makes their development possible. Sunyata is often equated with the absolute in Mahayana, since it is without duality and beyond empirical forms. In quantum physics, ultimate reality is equated with formless energy at the core of the atom. This energy (of physics) or sunyata (of Mahayana) is not a state of mere nothingness but is the very source of all life and the essence of all forms.

Another helpful way to understand sunyata is through the Zen term of "nowness," sometimes used interchangeably with "momentariness." In the absence of a permanent, abiding substance anywhere, there is only the nowness of things: ephemeral, transitory, momentary. In traditional Buddhist literature, the "nowness" of things is described as tathata or "suchness." The concept of tathata was first formulated by Asvaghosha, another great Buddhist thinker who probably lived a hundred years before Nagarjuna, and influenced him greatly. In Asvaghosha's formulation, when the futility of all conceptual thinking is recognized, reality is experienced as pure "suchness." What is realized in suchness is the existence of form-as-itself (the treeness of the tree, for instance), but that realization is suffused in intuitive wisdom (prajna) so that the ultimate reality of the form is seen as momentary and essentially devoid (sunya) of any lasting substance. Masao Abe, among others, insists that "Emptiness is Suchness."

Lama Angarika Govinda uses the word "transparency" to come to a fuller understanding of sunyata:

If sunyata hints at the nonsubstantiality of the world and the interrelationship of all beings and things, then there can be no better word to describe its meaning than transparency. This word avoids the pitfalls of a pure negation and replaces the concepts of substance, resistance, impenetrability, limitation, and materiality with something that can be experienced and is closely related to the concepts of space and light.[15]

He goes on to elaborate,

Far from being the expression of a nihilistic philosophy which denies all reality, it (sunyata) is the logical consequence of the anatman (non-self) doctrine of nonsubstantiality. Sunyata is the emptiness of all conceptual designations and at the same time the recognition of a higher, incommensurable and indefinable reality, which can be experienced only in the state of perfect enlightenment. While we are able to come to an understanding of relativity by way of reasoning, the experience of universality and completeness can be attained only when all conceptual thought, all word-thinking, has come to rest. The realization of the teachings of the Prajna-paramita Sutra can come about only on the path of meditative practice (yogacara), through a transformation of our consciousness. Meditation in

this sense is, therefore, no more a search after intellectual solutions or an analysis of worldly phenomena with worldly means--which would merely be moving around in circles--but a breaking out from this circle, an **abandoning of our thought-habits in order to "reach the other shore"** (as it has been said not only in the Prajna-paramita-hridaya, but also in the ancient Sutta Nipata of the Pali Canon.) This requires a complete reverseal of our outlook, a complete spiritual transformation or, as the Lankavatara Sutra expresses it, **"a turning about in the deepest seat of our consciousness."** This reversal brings about a new spiritual outlook, similar to that which the Buddha experienced when returning from the Tree of Enlightenment. A new dimension of consciousness is being opened by this experience, which transcends the limits of mundane thought.[16]

**"...five skandhas are..."**

=====

The Sanskrit word skandha literally means a group, a heap, or an aggregate. In Buddhist tradition, the five skandhas of form, feelings, perceptions, impulses and consciousness are taken to constitute the entirety of what is generally known as "personality." These four words (**"five skandhas are empty"**) are the essence of the earliest Buddhist teachings. The Buddha taught the three marks of existence (**suffering, non-self and impermanence**) as the defining characteristics of individual human existence; to these three marks, the Mahayanists added the **fourth mark of sunyata** (emptiness) and extended the concept to each and any existent in the universe. A detailed look at the five skandhas will mean understanding the very basis of Buddhist teachings and will provide a solid foundation for an extended look into sunyata.

The first and the most obvious of the skandhas is the corporeal form (Sanskrit: nama-rupa) which comes into being as a result of the energies of four elements (earth, air, fire and water) coming together in a certain configuration; when looked at by quantum physics, a form is seen to be devoid of any solid, everlasting substance. The form is held together in time and space by the interacting energies of the four elements in a certain pattern and balance. The characteristics which all skandhas, whether physical or mental, share are: **arising, stabilizing, decay and dissolution**. Decay and dissolution occur when the balance in which the elements have been held together for a certain period of time loses its inner tension and the organism is left without the essential vitality to hold itself in time and space.

The skandha called feeling (Sanskrit: vedana) is the general concept for feelings and sensations. These feelings and sensations can be classified into **pleasant, unpleasant and neutral**. As with the skandha of corporeal form, feelings and sensations also arise as a result of certain factors coming together. They then gain an intensity, hold it for some time, lose the intensity after some more time, and finally

disappear. A particular feeling or sensation may change into another feeling or sensation which, in turn, will go through the same process ad infinitum.

The skandha called perception (Sanskrit: samjna) includes perception of form, sound, smell, taste, touch and bodily impressions, and mental objects. Perception takes place only in relation to an object (or thought) and does not exist independently of an object of attention.

The skandha called impulse (Sanskrit: samskara) refers to mental formations. In Abhidharma-pitaka, the traditional compendium of Buddhist psychology, a total of fifty-two impulses are listed, and include mental activities such as volition, attention, discrimination, joy, happiness, equanimity, resolve, effort, compulsion, concentration, and so on; included in this skandha are all the volitional impulses or intentions that precede an action. Since actions can be either physical, verbal, or mental, impulses can accordingly be physical, verbal or mental. This skandha refers both to the activity of forming and the passive state of being formed. The impulses thus are the impressions, tendencies, and possibilities in one's consciousness, and are the sum total of one's character. The impulses are the result of the totality of one's actions and thoughts, including those of earlier births, and their continuing presence is the condition for a rebirth. If they are absent, no karma is produced and no further birth takes place. Since the impulses can be good, bad or neutral, they determine the type of rebirth that will take place since their quality conditions consciousness, and through them consciousness seeks a form in rebirth to manifest those qualities.

The skandha called consciousness (Sanskrit: vijnana) is the faculty of knowing. Consciousness is a reaction or response which has one of the six organs (of eyes, ears, nose, tongue, body and mind) as its basis and one of the six corresponding external phenomena (visual form, sound, smell, taste, touch and mental thoughts) as its object. Consciousness arises out of contact between the object and the corresponding organ, but consciousness does not recognize an object itself. It is only a sort of awareness, awareness of the presence of an object. For instance, when eye comes into contact with a blue color, eye-consciousness simply "sees" the presence of a color. The recognition that the color is blue comes from the skandha of perception, the third aggregate discussed above. Likewise, the hearing-consciousness only hears the sound but does not recognize the category of sound; this is done by the perception-aggregate, and so on.

A commonly-made mistake about consciousness is to misunderstand it as some sort of soul or permanent self or continuum that proceeds through one life and onto the next. The Buddha taught that consciousness arises only out of conditions; without the presence of conditions there is no consciousness. Consciousness depends on form, feelings, perceptions and impulses for its arising and cannot exist independently of them. It is essentially an observing function.

"...and is saved from all suffering and distress."

=====

All suffering is caused by delusion--delusion as to the nature of ultimate reality. Ultimate reality, in Buddhist view, for which now some very interesting parallels have been provided by quantum physics, is neither being (particle) nor non-being (wave), neither solid nor abiding in space-time continuum. **The qualities of non-self (Sanskrit: Anatman) and impermanence (Sanskrit: Anitya) are the hallmark of each individual existence;** it is only the ego which clings to the deluded view of a permanent self and distorts the nature of reality. In meditation, one apprehends on a direct, experiential level that the five skandhas are mere processes and that no self exists in the sense of a permanent, eternal, integral, independent substance; it is through this apprehension that a person is saved from deluded views, and hence from pain and suffering that ensue from such deluded views.

**"Sariputra, form does not differ from emptiness, emptiness does not differ from form. That which is form is emptiness, that which is emptiness form."**

=====

As noted above, like all phenomena, **form is devoid of any inherent self-abiding nature.** This devoidness (emptiness) is not a quality which a form gains in the course of its (momentary) existence but is infused with it from the very beginning. Quantum physics, as noted earlier, **posits the energy of silent pulsation at the core of everything in the universe, thus defining for us emptiness or sunyata as the "core energy";** in this light it is possible to see all forms emerging out of this silent pulsation as in waves or particles at the cellular level.

The sutra insists that form is emptiness. **There is a critical difference between form being empty and form being emptiness. Sunyata, in Prajnaparamita sutras, is the ultimate nature of reality;** at the same time **it does not exist apart from the phenomena but permeates each phenomenon.** Therefore, sunyata cannot be sought apart from the totality of all forms. And, although all forms are qualified at their core by sunyata, its presence does not negate the conventional appearance of form. In this sense, emptiness is dependent upon the form it qualifies, as much as form is dependent on emptiness for its qualification. Thus form is emptiness, and emptiness is form. At its core level, form does not differ from emptiness nor does emptiness differ from form.

"The same is true of feelings, perceptions, impulses, consciousness."

=====

In much as it does with form, the presence of emptiness does not negate the conventional appearance of feelings, perceptions, impulses, consciousness. All of these skandhas are constantly arising and dissolving as a result of certain conditions being present. These conditions are, in turn, empty and conditioned by another set of conditions which, too, are empty and so on, ad infinitum. All conditions

qualifying other conditions qualifying the skandhas are momentary phenomena giving rise to momentary phenomena. None of these has any inherent self-nature.

"Sariputra, all dharmas are marked with emptiness."

=====  
Dharma is a comprehensive term with a variety of meanings and applications at multiple levels for both Hindus and Buddhists. In the sutra here, the term is used in the sense of a fundamental unit of existence, the building blocks of the empirical personality and its world. In this sense, the dharmas are something like the atoms of Democritus or the monads of Leibniz. The term "point-instant" comes closest perhaps to capturing the insight behind the term dharma within the context of the Heart Sutra. These "point-instants" have miniscule extension in space and have practically no endurance. Again, the analogy of wave-particle unpredictability best captures the drama of "point-instants."

It is out of these dharmas, the fundamental units, that the skandhas are made. Since all existence is manifested through one or another of the skandhas, it seems inevitable that all existence is a conglomeration of dharmas. But the dharmas themselves are not any solid objects positioned in time and space, just as the waves and particles of quantum physics are not. The dharmas make a momentary appearance and then flicker out. They appear as a result of the interplay of underlying sunyata, the core energy; hence they are inherently empty. There is absolutely nothing one can hold on to.

"They do not appear or disappear, are not tainted or pure, do not increase or decrease."

=====  
The quality of appearing or disappearing is usually attributed to (seemingly) solid objects. If the dharmas are seen as a series of momentary flickerings, they cannot be invested with having the quality of appearing or disappearing precisely because flickerings are not solid objects. A flickering, so swift in time and miniscule in space, is not, in itself, tainted or pure, nor does it increase or decrease. An appropriate analogy here is of the waves in the ocean. A large wave is not a solid entity by itself but is composed of a series of smaller waves which in turn are composed of still smaller waves and so on. Even while we get the illusion of a "wave," there is actually a remarkably swift movement of water in certain patterns. A wave does not exist out there in the ocean. Out of ignorance, we may attribute these qualities (of appearing/disappearing, taint/purity, increase/ decrease) to conventional appearances (skandhas) but, since at the core of conventional appearances, there are only unpredictable flickerings (dharmas), our acceptance of these qualities as real in themselves will be a deluded view. The only place where our deluded view will find resolution is in the reality of sunyata.

Also, the categories of arising and disappearing, pure and

impure, increasing or decreasing, belong to the realm of affirmation and negation which are, in turn, produced by our conceptual thinking. In pure experience, there is no affirmation or negation. In the experience of sunyata there is only emptiness, not its affirmation or negation as having arisen or having disappeared, holy or unholy, etc. Here, it would be wise to remind ourselves of Nagarjuna's caution once again that as a concept sunyata too is empty. Any affirmation or negation of sunyata would be conceptual, and hence a deluded view.

"Therefore, in emptiness no form, no feelings, perceptions, impulses, consciousness. No eyes, no ears, no nose, no tongue, no body, no mind, no color, no sound, no smell, no taste, no touch, no object of mind, no realm of eyes and so forth until no realm of mind-consciousness."

=====  
This passage is a further triangulation of the earlier assertions by the Abhidharmists with regard to skandhas and dharmas. Not wishing the hearer to somehow form the misimpression that "emptiness is form," or any such category of analysis, the sutra now employs the classical Indian philosophical methodology of negation to rid the hearer of any such possibility. This methodology is two-pronged; on the one hand it denies any identification of emptiness with the skandhas (form, feelings, perceptions, impulses, consciousness) or the six sense-objects (eyes, ears, nose, tongue, body, mind) or the phenomena perceived by the six sense-organs (shape, sound, smell, taste, touch or thought) or the six consciousnesses produced as a result of contact between the sense-organs and the external phenomena (eye consciousness, ear consciousness, nose consciousness, tongue consciousness, touch consciousness and mind consciousness); in this sense, this negation is a rejection of the Hinayana predilection for numerous categories of analysis. On the other hand, the sutra asserts that sunyata is ineffable and inexpressible and is not to be confounded with eye, ear, nose, tongue, and so on, until any and all categories are denied as identifiable with sunyata.

Therefore, in sunyata there is nothing to hold on to. Sunyata is complete absence of all identifiable phenomena, yet it is not nihilistically void. What has ceased to operate in sunyata are all categories of analysis. When the rationality of the Hinayana thinking is transcended, and one enters into the realm of intuitive truth, only then does one experience the qualityless, valueless, ineffable sunyata of the Mahayana tradition.

"No ignorance and also no extinction of it and so forth until no old age and death and also no extinction of them."

=====  
This passage is a restatement of the insight contained in Buddha's enlightenment experience as well as a further negation of Hinayana rationality. The legend of Buddha's enlightenment tells us that in the first watch of the night of his great experience under the rose-apple tree, he experienced all his past lives, one by one, as he had lived them. In the second watch of the night, he witnessed the

death and rebirth of all cosmos and all being in them, across the aeons. Still, to his credit, he was not satisfied that he had discovered the root cause of human suffering as he had set out to do when he took his great vow not to move from his seat under the tree. Finally, at dawn, he saw the Morning Star and, in a flash, understood what he had been seeking. This insight has been articulated in later tradition as the Chain of Dependent Origination (or the Chain of Causation) and presented as a schema:

- 1) there is ignorance (as to the true nature of reality);
- 2) ignorance leads to mental formations or impulses (the skandha called samskara);
- 3) impulses or mental formations give rise to consciousness (the skandha called vijnana), the totality of thoughts, speech and actions;
- 4) consciousness determines the resulting mental and physical phenomena (the skandha called nama-rupa or the realm of name and form);
- 5) mental and physical phenomena condition the six sense realms: the five physical sense-organs of eye, ear, nose, tongue, body, and the mind;
- 6) the six sense-realms come into contact with (sensorial and mental) phenomena;
- 7) contact gives rise to sensations or feelings (the skandha called vedana);
- 8) feelings give rise to desire or thirst;
- 9) thirst gives rise to clinging;
- 10) clinging gives rise to the process of becoming;
- 11) the process of becoming leads to rebirth;
- 12) rebirth leads to suffering, old age and death.

Often this Chain of Dependent Origination is graphically represented as a circle and variously called the Wheel of Samsara, the Wheel of Becoming or the Wheel of Karma. Through the preaching of his insights, the Buddha taught people how to turn the wheel in the reverse order--through the complete cessation of ignorance, mental formations are eradicated; through the eradication of mental formations, consciousness is eradicated and so forth until one arrives at the cessation of conditioned rebirth and hence of suffering, old age, and death. This reverse turning is often called Turning the Wheel of Dharma and is called the path to nirvana, the state of being in which all deluded views as to anything in human personality being permanent or substantial are eradicated. It is important to bear in mind that each of the twelve factors in the Chain of Dependent Origination is conditioned as well as conditioning. As such, they are all interdependent and interconnected; in itself, no single factor is absolute or independent. Each factor is inherently empty. When the Wheel of Dharma is turned, all these factors find their resolution in nirvana or sunyata.

In sunyata, as noted earlier, forms are only flickerings--without any quality of solidity or time-endurance--manifesting themselves momentarily. Knowing this fundamental truth, we are spared the necessity of choosing one over the other, of attachment to one and aversion to another or both. Thus another occasion of clinging is dissolved. We are also spared the necessity to categorize the insight of the Buddha. Mahayana tradition insists that it is enough for a believer to firmly hold on

to the thought of enlightenment and practice diligently. A firm belief that in sunyata all things find their resolution is therefore enough for a Mahayana believer. To know through the eye of wisdom that all the twelve links in the Chain of Dependent Origination are interconnections and inter-relations is to echo the words of Werner Heisenberg, one of the founders of quantum physics, "The world thus appears as a complicated issue of events, in which connections of different kinds alternate or overlap or combine and thereby determine the texture of the whole." [17]

"No suffering, no origination, no stopping, no path, no cognition, also no attainment with nothing to attain."

=====

This is the most shocking rejection yet of the Hinayana approach to Buddha's teaching which had insisted that the totality of Buddha's teaching was contained in the first teaching he gave to his five former colleagues soon after his enlightenment. This teaching is called the First Sermon or the Sermon of the Four Holy Truths. In this schema, the four Noble Truths are:

- 1) existence is dukkha (pain, suffering, discomfort, dis-ease, sense of incompleteness);
- 2) dukkha is caused by "thirst" (Sanskrit: tanha)--desire to be, desire to have;
- 3) the thirst can be stopped (nirvana);
- 4) it can be stopped by walking the eightfold path (namely--right understanding, right thoughts, right speech, right action, right livelihood, right effort, right mindfulness, right concentration).

The Mahayana disciples had no quarrel with the insight contained in any of these classifications but what precipitated a conflict for them was the Hinayana insistence on a monastic elitism which declared itself to be the sole custodian of Buddha's teachings and their interpretation. Through the innovation of sunyata, both as the ontological and transcendent nature of reality, the Mahayana followers declared all categories, and hence their interpretations, as dualistic, thus null and void. By positing a simple faith in the thought of enlightenment and diligent practice, they sought to make the Buddha's enlightenment experience available to any and all, laypersons and monastics alike.

This passage then is a declaration that suffering, origination of suffering, and the stopping of suffering by following a certain path are empty categories; at the same time, it is an affirmation that in the pure experience of sunyata, there are no dualities or distinctions between suffering and its stopping, between suffering and the so-called path to liberation. The sutra declares, almost ruthlessly, that there is no cognition or attainment with nothing to attain. Hinayana tradition had seen in the person of the arhant an embodiment of great spiritual attainment, and he was a model to be emulated. Historically, however, soon after the death of the Buddha, a controversy emerged over the status of the arhant and at the Second Council (held about a hundred years after the death of the Buddha); one of the key issues debated at the Council was whether or not it was possible for an arhant to relapse. The consensus,

controversial though it was, was that an arhant can indeed relapse. Subsequent Mahayana literature built upon this limited capacity of the arhant and extended its belief system to include the transience of all categories of existence, including suffering, its cessation, and any attainment to come out of such cessation.

"The Bodhisattva depends on Prajnaparamita and the mind is no hindrance. Without any hindrance, no fears exists. Far apart from any perverted view, one dwells in Nirvana."

=====

The bodhisattva is steadfast in his/her trust in the wisdom of sunyata and finds in it a sense of completion; he or she is completely at peace with it and with himself. This is his (her) support, and he knows there is nothing lacking in it. Whatever the limitations of his or her conditioned mind may be, he or she has a perfect understanding of, and trust in, the truth of sunyata. No perverted or deluded views are going to cloud his or her vision. In traditional Buddhism, there are "four perverted views" from which liberation is sought:

- 1) a view that anything existent can be permanent even if it is compounded;
- 2) a view that satisfaction may be found in the world of compounded entities;
- 3) a view that there is a permanent self or soul; and
- 4) a view that things are desirable and therefore worth striving for and clinging to.

An investment in any of these "perverted" views is likely to produce fear and confusion. Fear and confusion, by their very nature, seek other things to cling to, and each clinging brings about its own particular perverted view to further cloud the vision. Rooted firmly in the wisdom of sunyata, the bodhisattva has no such hindrance. S/he does not mistake the unreal for the real, the conditioned for the unconditioned, the relative for the absolute, etc.

For a contemporary reader of the sutra, the words, "no fears exist" may be the most significant insight contained in the sutra. Our century has been characterized by existential angst and its concomitant despair and hopelessness. The late twentieth century culture finds itself driven by the basic fuel of fear even while the individual is really yearning for love. Our conditioning has become such that we fear fear and we fear love. Any resolution of the individual human condition has to perforce deal with the basic fear of duality, fear of the "other," fear of the world which one finds to be hostile and threatening, and yet indispensable. Unless this dichotomy, this sense of separation from the world is resolved, all our efforts to find a "meaning" in human life are going to be nothing more than manipulative gestures. It is only in the pure experience of sunyata that one transcends the manipulative gestures which societal conditioning, in its ignorance, sees not as illusions but as substantive. The training of the bodhisattva is to see the illusory nature of these manipulative gestures and transcend them.

Without a clouded vision, the bodhisattva "dwells in

nirvana." For the earlier Hinayana, nirvana was the state of liberation resulting from the eradication of suffering caused by desires and any notion of a permanent selfhood. As happened with many other aspects of Buddha's teaching, nirvana too came to be posited as a category in the Abhidharma scheme of things. Mahayana response to this position was that while the Hinayana follower had certainly achieved a measure of peace, his understanding of liberation was limited as long as he persisted in having a fear of samsara (the world of desires and becoming) and felt that samsara had to be overcome by attaining nirvana. This is a dualistic approach and, according to Mahayana, cannot lead to the Transcendent Wisdom which is essentially non-dualistic and in which samsara and nirvana are not distinct from each other. Nirvana is not to be considered as "something," a category, which exists as a separate reality apart from everything else; nirvana is not the result of doing something or attaining something but of not-doing: the not-doing of not discriminating. The bodhisattva does not "attain" nirvana (since any attainment is empty of time-endurance or self-nature) but having the unclouded vision of non-discrimination, in other words, of sunyata, he is always immersed in tranquility and is at peace with himself or herself. Nirvana is sunyata and sunyata itself is nirvana. Nirvana is sunyata because it has no graspable nature; any thought of nirvana as an attainable object would therefore be an error. Nirvana is not something to be striven for but to be intuited in the unfolding of each moment where sunyata plays itself out unceasingly. Through his intuitive wisdom (prajna), the bodhisattva knows that in sunyata all things are just as they really are i.e. full of Thusness or Suchness (Sanskrit: Tathatha).

"In the three worlds all Buddhas depend on Prajnaparamita and attain Anuttara Samyak Sambodhi."

=====  
The "three worlds" are the worlds of past, present and future (sometimes also referred to as the worlds of form, formlessness, and desire.) The vehicle through which the Buddhas attain their Buddhahood is the Transcendent Wisdom of sunyata.

Anuttara Samyak Sambodhi means "Perfect Unexcelled Awakening." It is the enlightenment of a perfect Buddha, one who has by himself rediscovered the teaching that leads to liberation. Anuttara Samyak Sambodhi also means possession of the "ten powers" (Sanskrit: Dashabala) of a perfect Buddha:

- 1) knowledge of discernment in any situation of what's possible and what's not;
- 2) knowledge of ripening of deeds in oneself and others;
- 3) knowledge of superior and inferior abilities of other beings;
- 4) knowledge of tendencies in other beings;
- 5) knowledge of the manifold constituents of the world;
- 6) knowledge of paths leading to rebirth in various realms of existence;
- 7) knowledge of what will lead to purity and what to

- impurity;
- 8) knowledge of various meditations (dhyana) and concentrations (samadhi);
  - 9) knowledge of death and rebirth;
  - 10) knowledge of when the defilements are completely eradicated.

The "attainment" of these ten powers in Anuttara Samyak Sambodhi may seem, on the surface, a logical contradiction since the sutra has just declared that there is "no attainment, with nothing to attain." The implicit message here is that in and of itself Anuttara Samyak Sambodhi too is empty but the ten powers arising out of deep contemplation on the wisdom of sunyata can be used as "skillful means" (Sanskrit: upaya) which, along with wisdom and compassion, are the hallmark of a bodhisattva in the Mahayana literature. Having these ten powers at his or her disposal, the bodhisattva works tirelessly to save all beings, knowing fully well that all is inherently empty. The effort is directed toward helping individuals change their karmic legacies and patterns rather than "saving" any solidity called "being."

Anuttara Samyak Sambodhi changes the complexion of the sutra from a mere negation of Hinayana categories to a positive fulfillment of the bodhisattva vow ("Sentient beings are numberless; I vow to save them all.") The bodhisattva treads on this path immersed in the intuitive wisdom of sunyata rather than the rational categories of the Hinayana model or having the illusion that there is someone who can "save" someone. The wisdom of sunyata is not an opinion or a category but an experience; it is an experience in which "sunyata is" rather than "sunyata is something." The experiencer and the experienced are inseparable, indistinguishable from each other. The bodhisattva and those he or she is trying to "save" are inseparable from each other.

In the sense of celebrating the insight into sunyata, the sutra ends here. Historically, however, by the time the Heart Sutra was given its final shape, the influence of Mantrayana (the vehicle of mantra practice) and Tantra was clearly ascendent within Mahayana. The following passage is to be seen, therefore, in historical context as an addendum and proselytizing in nature. The assertions made here clearly contradict the insights presented earlier in the sutra. Commentators through the ages have taken opposite positions on the inclusion of the mantra in the sutra; perhaps the best way to sum up the place of the mantra in the sutra is to note the historical context and leave it entirely up to the reader--to use this mantra as an incantation, as a tool of power; a more discerning inquirer may see the mantra as a linguistic and symbolic summation of the central teaching of the Mahayana wisdom schools.

A very positive view of this mantra is offered by Thich Nhat Hanh, the contemporary Vietnamese Zen master:

When we listen to this mantra, we should bring ourselves into that state of attention, of concentration, so that we can receive the strength emanated by Avalokitesvara Bodhisattva. We do not recite the Heart Sutra like singing a song, or

with our intellect alone. If you practice the meditation on emptiness, if you penetrate the nature of interbeing with all your heart, your body, and your mind, you will realize a state that is quite concentrated. If you say the mantra then, with all your being, the mantra will have power and you will be able to have real communication, real communion with Avalokitesvara, and you will be able to transform yourself in the direction of enlightenment. This text is not just for chanting, or to be put on an altar for worship. It is given to us as a tool to work for our liberation, for the liberation of all beings.[18]

"Therefore, know that Pranjaparamita is the great transcendent mantra, is the great bright mantra, is the utmost mantra, is the supreme mantra which is able to relieve all suffering and is true, not false."

=====  
Clearly this message is intended for the unconvinced and the uninitiated. It asks for faith and trust in the efficacy of the sutra (which was the hallmark of Mahayana methods of veneration) rather than the critical-analytical faculty of self-investigation which Hinayana demanded from its followers. A faith in the power of a mantra is a further development in Mahayana and complementary to the growing popularity of the Lotus (Saddharam-pundarika) Sutra and other sutras from the Pure Land School; this trend in Mahayana would give rise to Tantra and become all-dominant in Buddhist cultures in Tibet, China, Japan and Korea where missionaries from India made remarkable gains in the course of their religious adventure treks.

The magico-mantrik culture which these missionaries brought with them found receptive soil in the countries of north and east Asia and led to tremendous religious-social-cultural realignments in these lands.

"So proclaim the Prajnaparamita mantra, proclaim the mantra which says:

"Gate, Gate, Paragate, Parasamgate, Bodhi Svaha."

=====  
Gate, gate means gone, gone; paragate means gone over; parasamgate means gone beyond (to the other shore of suffering or the bondage of samsara); bodhi means the Awakened Mind; svaha is the Sanskrit word for homage or proclamation. So, the mantra means "Homage to the Awakened Mind which has gone over to the other shore (of suffering)."

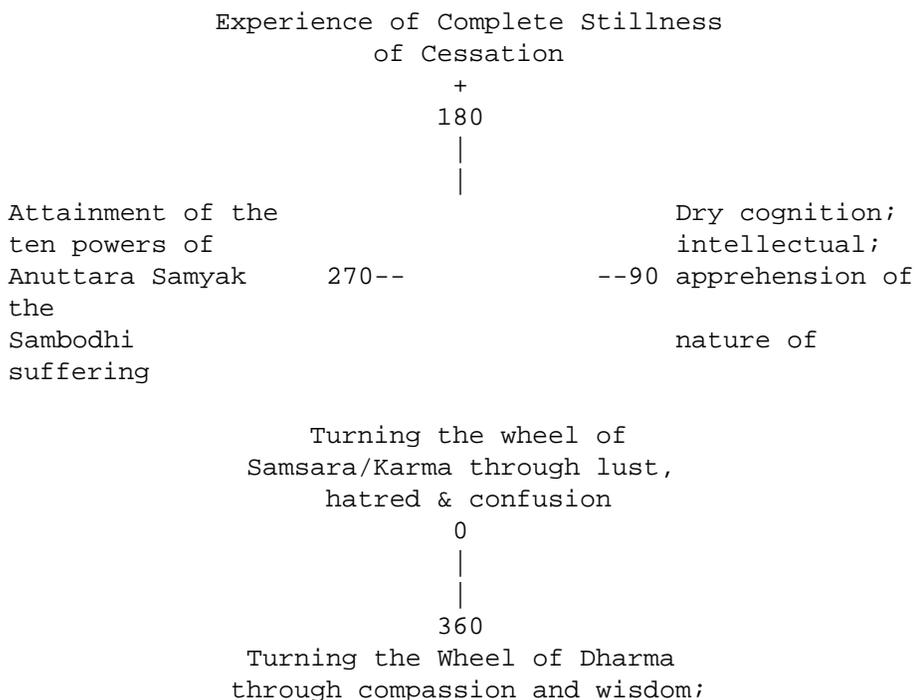
Whatever perspective one may take on the inclusion of the mantra at the end of the sutra, it does not put a blemish on what the sutra has tried to convey earlier: the richness of intuitive wisdom coming out of the pure experience of complete stillness, of complete cessation, away from all concepts and categories.

Zen masters, in echoing the theme of emptiness, like to agree with existentialist thinkers that "life" has no

meaning or reason. The Heart Sutra uses the methodology of negation as a way of pointing to this lack of any inherent meaning or reason in the phenomenal world, including the world of the mind. It takes each of the existents, holds it up under an unflinching gaze and declares it to have no sustaining self-nature. This is the wisdom teaching of sunyata of the Mahayana tradition. But, at the same time, compassion is the other and equally important teaching of Mahayana. How do we then bridge the gap between sunyata as ultimate reality and the conventionality of human condition? The existentialist thinkers agonized over this problem and were led to despair and anarchy. In Mahayana, compassion, which is a natural, unforced by-product of a deep state of meditation, supports the wisdom of emptiness, yet allows the individual to have empathy with the conventional appearance of the world without getting lost in it. It may be that compassion works best as a post-enlightenment existential crisis, but nonetheless without compassion as a guiding paradigm, the unrelenting precision of sunyata can make life unbearable.

Zen masters insist that our true freedom lies in the choices we make, and each one of us has the power to change "no meaning" into Great Meaning, "no reason" into Great Reason. This is possible because in the pure experience of sunyata, one realizes that one is intrinsically endowed with Buddha-nature and that this Buddha-nature in oneself is not different from Buddha-nature in all living beings. To see others as separate from oneself is to live in delusion and deny one's own Buddha-nature; to see others as sharing in one's own Buddha-nature is to affirm one's essential humanity. In making the free choice of compassion for all beings, we are doing no more than giving expression to our own Buddha-nature. It is only in compassion (Sanskrit: karuna) that wisdom (prajna) finds its fullest expression.

Graphically, this way of understanding the Heart Sutra in the Zen and Mahayana traditions may be presented as a circle:



seeing things just as they are

At 0 degree is samsara. Here the Wheel of Karma keeps turning on and on, fueled by anger, greed and ignorance. An urgency to change, to get out of the realm of suffering leads one to

90 degrees. Here one has an intellectual awareness of the Four Noble Truths and the Chain of Dependent Origination in the Hinayana-Abhidharma sense, but this is dry cognition. When one follows this dry cognition with a deep experience of meditation samadhi, one reaches the experience of

180 degrees. This is the experience of Complete Stillness, of sunyata, of cessation. Here the mind becomes completely silent and personal and societal conditioning disappears. In Zen terms, this is the realization of Buddha-Nature. A thorough absorption in this samadhi leads to

270 degrees where one acquires the ten powers of Anuttara Samyak Sambodhi. This is the attainment of Buddhahood in traditional Buddhist sense. At the same time one understands from one's wisdom-eye that in themselves these powers too are empty; this wisdom leads one to

360 degrees. This is nirvana in action, Buddhahood manifested in functioning in the world. Here the Wheel of Dharma is turned by employing skillful means (upaya), rooted in wisdom and compassion. Here one finds validation of one's bodhisattva vows, which is a continuation of what Shakyamuni Buddha did in his forty-five years' teaching career.

More than two centuries ago, Voltaire wrote, "Man makes his own gods, forges forever new chains for himself." Today, we live in a post-religious society; our psychological and spiritual needs have transcended the making of gods and forging of new chains for ourselves. Our need today is to find a new paradigm in which the intellectual and the intuitive meet, a paradigm which is rooted in the wisdom of our own meditative experience. Today, researchers in the field of consciousness use terms like "holographic" to describe a new model of the universe in which an individual is a "hologram" and exists in a state of "holonomy" in the so-called "holographic" universe.

The idea of the universe as an overachieving unity repeated somehow in each of its parts bears a majesty and elegance all its own....The holonomic formulation...resonates with one of the most ancient intuitions of the race, expressed with eloquence and force in Eastern philosophy. It helps account for the essential meaningfulness of existence, the coherent, repeated patterns that we keep discovering at the deepest structure of language, mathematics, and the physical world. It is a necessary consequence of modern quantum

theory taken to its logical extreme.[19]

The "holographic" model of the universe cannot be replicated in individuals by turning it into yet another ideology for societal realignment. Without an experience of sunyata, which allows us to get in touch with our basic humanity, it will be just another concept, subject to disputations and dissertations. But if we are wise enough to learn from the experience of Mahayana mystics and the findings of quantum theory, we can find that:

A world of connectedness, potential, and evolution turns us toward a vivid sense of community along with the acceptance of personal responsibility; toward a de-emphasis on competing and winning along with a re-emphasis on participating and experiencing; from aggression toward gentleness and enjoyment; from dominance of nature to blending with nature; from exponential growth in production and consumption to a more moderate, more ecological standard of living along with a powerful intentionality; toward social justice throughout the world.[20]

Compare this to the sentiments echoed by a contemporary Zen master in the context of the Heart Sutra:

The Prajnaparamita gives us a solid ground to making peace with ourselves, for transcending the fear of birth and death, the duality of this and that. In the light of emptiness, everything is everything else, we inter-are, everyone is responsible for everything that happens in life. When you produce peace and happiness in yourself, you begin to realize peace for the whole world. With the smile that you produce in yourself, with the conscious breathing you establish within yourself, you begin to work for peace in the world. To smile is not to smile only for yourself; the world will change because of your smile. When you practice sitting meditation, if you enjoy even one moment of your sitting, if you establish serenity and happiness inside yourself, you provide the world with a solid base of peace. If you do not give yourself peace, how can you share it with others? [21]

#### References

=====

- [1] Leonard, George, *The Silent Pulse*, p.xii.
- [2] Capra, Frithjof, *The Tao of Physics*, pp.197-98.
- [3] Conze, Edward, *Buddhist Wisdom Books*, p.18.
- [4] Dumoulin, Heinrich., *Zen Buddhism, A History, Vol.1,* p. 35.
- [5] Conze, Edward quoted by Donald Lopez, Jr. in *The Heart Sutra Explained*, p. 3.

- [6] Lopez, Donald, Jr., The Heart Sutra Explained, p.7.
- [7] Leonard, George, The Silent Pulse, pp.32-34.
- [8] Kornfield, Jack, "The Smile of the Buddha," Ancient Wisdom and Modern Science, p.101.
- [9] Leonard, George, The Silent Pulse, p.176.
- [10] Capra, Frithjof, "The New Vision of Reality," Ancient Wisdom and Modern Science, p.138.
- [11] Ibid, p.138.
- [12] Capra, Frithjof. Tao of Physics, pp.198-99.
- [13] Chang, Garma C.C., Buddhist Teaching of Totality, pp.60-61.
- [14] Abe, Masao, Zen and Western Thought, p. 94.
- [15] Govinda, Lama Angarika, Creative Meditation and Multi-Dimensional Consciousness, p.11.
- [16] Ibid, pp. 60-61.
- [17] Heisenberg Werner, quoted by Frithjof Capra, "The New Vision of Reality," Ancient Wisdom and Modern Science, p. 137.
- [18] Hanh, Thich Nhat, The Heart of Understanding, pp. 50-51.
- [19] Leonard, George, The Silent Pulse, p.89.
- [20] Ibid, p.177.
- [21] Hanh, Thich Nhat, The Heart of Understanding, pp.51-52.

#### Bibliography

=====

Abe, Masao. Zen and Western Thought. Honolulu: University of Hawaii Press, 1985.

Capra, Frithjof. Tao of Physics. Boston: Shambala, 1976.

-----"The New Vision of Reality: Toward a synthesis of Eastern Wisdom and Modern Science" in Ancient Wisdom and Modern Science. Albany: State University of New York Press, 1984.

Chang, Garma C.C. Buddhist Teaching of Totality. University Park: Pennsylvania State University Press, 1971.

Conze, Edward. Buddhism: Its essence and development. New York: Harper and Row, 1975.

-----Buddhist Thought in India. Ann Arbor: University of Michigan Press, 1967.

-----Buddhist Wisdom Books. New York: Harper and Row, 1972.

-----Selected Sayings from the Perfection of Wisdom. Boulder: Prajna Press, 1978.

-----Thirty Years of Buddhist Studies. Columbia: University of South Carolina Press, 1968.

Dumoulin, Heinrich. Zen Buddhism: A History (Vol.1). New York: Macmillian Publishing Co. 1988.

Fox, Douglas A. The Heart of Buddhist Wisdom. Lewiston, N.Y: Edwin Mellen Press, 1985.

Govinda, Lama Angarika. Creative Meditation and Multi-Dimensional Consciousness. Wheaton, IL: Theosophical Publishing House, 1976.

Hanh, Thich Nhat. The Heart of Understanding. Berkeley: Parallax Press, 1988.

Kenney, Jim. "Particle, Wave, and Paradox" in Fireball and the Lotus, edited by Ron Miller and Jim Kenney. Santa Fe: Bear & Company, 1987.

Kornfield, Jack. "The Smile of the Buddha: Paradigms in Perspective" in Ancient Wisdom and Modern Science, edited by Stanislav Graf. Albany: State University of New York Press, 1984.

Kothari, D.S. "Atom and the Self" in The Evolution of Consciousness, edited by Kishore Gandhi. New York: Paragon House, 1983.

Leonard, George. The Silent Pulse. New York: E.P. Dutton, 1978.

Lopez, Donald S. The Heart Sutra Explained. Albany: State University of New York Press, 1988.

Murti, T.R.V. The Central Philosophy of Buddhism. London: George Allen & Unwin Ltd. 1955.

Streng, Frederick. Emptiness: A Study in Religious Meaning. Nashville: Abingdon Press, 1977.

Talbot, Michael. Mysticism and the New Physics. New York: Bantam Books, 1980.

Wallace, Alan B. Choosing Reality: A contemplative view of Physics and the Mind. Boston: Shambala, 1989.

\* \* \*

Primary Point Press is the publications division of the Kwan Um School of Zen. It has published Gathering of Spirit: Women Teaching in American Buddhism, edited by Ellen Sidor (1987) and Ten Gates: The Kong-an Teaching of Zen Master Seung Sahn (1987). It has reprinted Only Don't Know: The Teaching Letters of Zen Master Seung Sahn (1982) and Thousand Peaks: Korean Zen--Tradition and Teachers by Mu Soeng Sunim (1987).

The Kwan Um School of Zen is a network of centers under the spiritual direction of Zen Master Seung Sahn and senior teachers. The school publishes Primary Point, an international journal of Buddhism. More information about the Kwan Um School of Zen, including a list of centers worldwide, may be received by contacting the school at:

Cumberland, Rhode Island 02864

Telephone (401) 658-1476

Fax (401) 658-1188