



Cracking the
CODE
of Our
**PHYSICAL
UNIVERSE**

The Key to a Whole New World of
Enlightenment and Enrichment

Matthew M. Radmanesh, Ph.D.

Author of "The Gateway to Understanding," and
"Radio Frequency and Microwave Electronics Illustrated"

Cracking the Code of Our Physical Universe

Matthew M. Radmanesh, Ph.D.

Why This Book?

What sets this book apart is the fact that it is not just another science book describing scientific facts and phenomena! It would surely be redundant since that task has been done many times over with much more elegant prose and brighter narrators.

In this book, for the first time we have undertaken the task of breaking the code of any piece of matter or natural phenomena; whether it is an atom, a quantum occurrence, a planet, a galaxy, or any other perceivable thing. It covers any natural phenomena ever discovered or one that will be unravelled by the future pioneers in their respective fields.

This book provides the trail map of any and all things that man has discovered and shows how their codes were cracked. The list of discoveries is endless but prominent amongst them are the discovery of fire, electricity, magnetism, laws of motion, the solar system and planets, so on and so forth.

This book goes beyond just pure science since it fuses philosophy with science. It actually makes science a subset of philosophy, or more precisely, applied philosophy. Just like the light phenomenon, which was made to be a subset of the field of electricity by James Clerk Maxwell, revolutionizing our technical world, so does this book by bringing a new era of incredible developments for mankind!

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“This book is based on sound and solid scientific principles that enable you to comprehend complex phenomena. It unearths sciences for the public and offers an explanation for the universe’s many mysteries. I highly recommend this book to all in the teaching profession.”

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—Robb Gray,
President, First Pacific Financial, Inc.

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Front Cover Image: *The design on the front cover shows the graceful, winding arms of the majestic spiral galaxy M51 (NGC 5194) appearing like a grand spiral staircase sweeping through space. They are actually long lanes of stars and gas laced with dust. This sharpest-ever image of the **Whirlpool Galaxy** (located 31 million light-years away), taken in January 2005 with the Advanced Camera for Surveys aboard NASA's Hubble Space Telescope, illustrates a spiral galaxy's grand design, from its curving spiral arms, where young stars reside, to its yellowish central core, a home of older stars. The image is 14,000 light-years across.*

Back Cover Image: *The design on the back cover shows **Star-Birth Clouds** in M16. This eerie, dark structure, resembling an imaginary sea serpent's head, is a column of cool molecular hydrogen gas (two atoms of hydrogen in each molecule) and dust that is an incubator for new stars. The stars are embedded inside finger-like protrusions extending from the top of the nebula. Each "fingertip" is somewhat larger than our own solar system. The pillar protrudes from the interior wall of a dark molecular cloud. It is part of the "Eagle Nebula" (also called M16), a nearby star-forming region 6,500 light-years away in the constellation Serpens.*

*D*edicated to the
Best of Mankind,
Whose Spiritual Wisdom
Has Lit Up
This Forlorn Corner
of Our Galaxy!

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Foreword

Not since Stephen Hawking has anyone written with such brilliance, clarity of thought, and in a way any of us can understand!

Science and engineering have always needed outstanding communicators who communicate without all the excess scientific terminology and complex grammar that even a professor of English would have a hard time understanding.

Dr. Radmanesh not only captures the technical complexity of scientific thought, he marries it to complex philosophical thought and serves them up like a delicious club sandwich. He extends the boundaries created by Hawking and finally brings the theoretical physics into the real engineering world to complete the story.

I highly recommend this book to anyone interested in our world and our future! I cannot wait to purchase a copy for my wife and one for my mother.

Dr. Charles K. Alexander, Fellow IEEE, P.E.
*Dean, Fenn College of Engineering,
Cleveland State University;
CEO of the IEEE (1997)*

Preface

Recently the author published a popular book entitled "The Gateway to Understanding: Electrons to Waves and Beyond" which was well received by the scientific community. At the time it appeared that some of the main goals set forth by the author in writing the book were fulfilled. However, there were areas that were not clearly addressed in that work and needed further elucidation.

The need for such a further elucidation is what led to the creation of this second book and is where it takes off. It is the sequel or the second installment to the first book and intends to undercut areas that were not illuminated in the first volume.

The present work is the culmination of many years of study, observation, and pondering on the dilemmas and enigmas of the physical universe and their origin and the resultant understandings that were extracted from this sophisticated and at times incomprehensible arena.

It is an interestingly uncommon book written primarily for the technical as well as the non-technical man. It is intended to serve several classes of our society

- a) The technically versed individuals,
- b) The interested but non-technical individuals,
- c) The professional scientists.

This book will surely serve also an important class of our society—the technical inventors who are looking for inspirations and new ideas to imbue them with enough understanding to finalize and materialize their thoughts into reality.

It is written for the average man who may or may not be technically versed and yet desires to learn about the universe at large, or the technical world in his immediate surroundings. It is intended to lift the aura of “black magic” surrounding the world of sciences, to enlighten and demystify the subject of sciences in the minds of ordinary individuals.

The Importance of Work

Everyone, in today's society, is struggling with this dominant and imposing thing called the physical universe and strives toward a higher understanding of its inner workings. Yet most books present the basic concepts with so much complexity and filled with so many mathematical equations that the general public has given up on the subject, choosing to retire to the sideline as spectators. In other words, their hopes have been dashed aside and their dreams of a higher understanding have not been fulfilled in any of these books.

Within the confines of this book, one is given a chance for the first time to take an in-depth look and inspect first-hand the code of one of the most enigmatic universe that has ever been constructed. Its dominance and imposing characteristics in all aspects of our existence is truly remarkable. The basics are stated in simple terms and clear explanations express the powerful principles lucidly and dynamically, providing an unforgettable impression in the reader's mind.

This is a new approach unmatched in any extant text today. The discovery of these fundamentals has had a huge impact on our current world and has truly made our scientific arena a bright beacon of hope with a renewed interest in understanding our physical universe. This work has created, in very simple terms, a “unified theory” about the two distinct concepts: physical and thought universes.

Finally, this work lays out the milestones, so that the scientist as well as the non-technical individual can travel on this adventurous road and be able to formulate and develop the code that starts to crack open the “Material or Physical Universe” and ends up with the key to the kingdom of the “Thought Universe.”

The Author's Goals

The author intends to bring forth a milestone achievement that can be summed up as:

To bring about a public awareness of how the universe affects us in many ways on a constant basis and how a basic knowledge of the subject not only can lead to the cracking its code but also gaining a higher level of causation over it.

The non-technical reader will be invited to examine a series of basic materials that will enable him/her to understand his immediate universe far better than ever before. He/she will be exposed to materials of considerable significance, which surely would open up the gates of knowledge along with a wider horizon of understanding.

Any communications in the way of a healthy criticism and/or correction are welcome. Moreover, the author considers it one of the most rewarding things to have others grasp the materials in all of their simplicity and increase their own potential survival in this universe and help others to achieve their goals. In the process, this helps make Man take control of his own destiny, without being shackled by the chains of higher authority or superstition.

Therefore, in order to improve the quality of this work, the author would like to have all comments or suggestions be sent directly to:

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18111 Nordhoff Street,
Department of Electrical and Computer Engineering,
California State University, Northridge, California 91330.

Or email to: matt@csun.edu

You can also check out these related websites for more information:

www.KRCbooks.com

www.csun.edu/~matt

Matthew M. Radmanesh, Ph.D.

Acknowledgements

First and foremost, special thanks are due to Dr. L. Ron Hubbard, a true genius, whose pioneering works in several vital arenas, brought many new discoveries to the forefront and inspired the author to write the original manuscript to formulate the methodology of how the code of the physical universe could be cracked.

The author's special gratitude also goes to a dear friend, Robb Gray, who helped him in many ways to keep his thoughts focused and to provide much needed support during this intense project. Thanks are also due to a highly-valued and special individual, Jaime Rodriguez, who simplified many challenging aspects of this work.

The author would like to further thank many of his professional colleagues, particularly Dr. Asad Madni (CEO/COO of BEI Technologies, Inc.), one of his best friends/colleagues, Dr. Charles Alexander (Dean, Cleveland State University), Dr. S. T. Mau (CECS Dean), Dr. Nagi El Naga (ECE Dept. Chair), Dr. Tom Mincer, Dr. Brenda Timmerman, Dr. Jeff Wiegley, Dr. John Noga, Dr. Tim Fox, Dr. Robert Burger (California State University, Northridge, CA) dear friends at CSUN, Philip Arnold (Agilent), a good friend, Dr. George Haddad & Dr. C. M. Chu (University of Michigan, Ann Arbor, MI), the early mentors in Michigan, Dr. M. Torfeh and Dr. B. Salajekeh (Kettering University, Flint, MI). Their support and collegiality through the years is definitely appreciated.

Finally, the author's deep gratitude belongs to his lovely wife, Jane Marie, and his lovely son, Jeremy William, for making life soothing and sweet during this power-packed project and to his parents, Mary and the late Dr. G. H. Radmanesh, for their true love and unconditional support.

Matthew M. Radmanesh, Ph.D.
Dept. of Electrical and Computer Engineering,
California State University, Northridge,
May 2006

What Sets This Book Apart

What sets this book apart is the fact that it is not just another science book describing scientific facts and phenomena. It would surely be redundant since that task has been done many times over with much more elegant prose and brighter narrators.

Here is a book where, for the first time, we have undertaken the task of breaking the code of any piece of matter or natural phenomena; whether it is an atom, a quantum occurrence, a planet, a galaxy, or any other perceivable thing. It covers any natural phenomena ever discovered or one that will be unraveled by their future pioneers in their respective fields.

"To be philosophy's slave is to be free."

—Seneca Wallace (5 - 65 AD)
Roman Philosopher

This book lays the trail map of any and all things that man has discovered and shows how to bring about new ones. The list of discoveries is endless. Prominent amongst them are the discovery of fire, electricity, magnetism, laws of motion, the planets, the solar system so on and so forth.

Just like the light phenomenon, which was made to be a subset of electricity by James Clerk Maxwell, thus revolutionizing our world, so would this book by bringing on a new era of incredible developments for mankind!

This book is the road map, which leads to the final disentanglement of the universes and makes one stand at cause over any and all of the created universes to change the course of their creation!

"Superstition sets the whole world in flames; philosophy quenches them."

—Voltaire (1694-1778)
French Philosopher

Why Should I Read This Book?

Cracking the code of the "*Physical Universe*" and deciphering its many mysteries is a daunting task that has doggedly been pursued for many generations, since the beginning of recorded time on this planet. The design and origin of the code goes back to trillions of years ago, long before the appearance of *Homo sapiens* (Modern Man), as a species on earth, which happened about one hundred thousand years ago.

The main features of the "code" and its many complexities could not have possibly been cracked before the late 1800s, when the laws of electricity, magnetism and electronic waves were finally formulated and put forth as a unified theory by several prominent scientists.

There have been much speculations, wild theories and complex thoughts about the nature and the structure of the code, and many philosophical approaches have been developed through the ages in an effort to resolve a piece of the puzzle in the hope of understanding the rest of the puzzle through a process called "inductive logic."

"Tell me and I'll forget; show me and I may remember; involve me and I'll understand."

—A Chinese Proverb

Thus, the search for understanding a puzzle of enormous proportion called "The Physical Universe," has been in the works for centuries, if not millennia.

If we live on this planet and go about our daily world activities in complete disregard of this imposing universe, we will certainly have lots of trouble enhancing our own survival potential as well as our progenies and symbionts (i.e., life forms that are mutually dependent, e.g., pets, plants, etc.).

However, if we engage upon a campaign in understanding the intricacies and the inner workings of the physical universe, then maybe we can formulate our own version of the code and finally achieve a total mastery of one of the most enigmatic universes ever created.

"Every master was once a disaster."

—T. Harv Eker (circa 1960-)

Canadian Educator, Author, and Motivational Speaker

So, we need to know the "code" to the physical universe in all of its ramifications to understand how it works if we intend to make a wholehearted effort in resolving and disentangling our own universe from this utterly amazing and extremely dominant one.

This campaign starts here and now with this book, so read on my fellow traveler since you are going to be on a journey— a "road to discovery and knowledge," if you will, and will come away at the end with a heightened awareness of many facets of our universe, hopefully leading to a more joyful, causative, and rewarding life.

"Life-transforming ideas have always come to me through books."

—Bell Hooks (1952-)

Distinguished Professor of English

Cracking the Code.....

Since time immemorial, Man has been on a long and relentless search for the answers to the riddles and puzzles of this universe. It has been a long search, and many a great scientist and philosopher have been at work to crack the code by revealing an ultimate solution in a simple and understandable fashion.

There have been bits and pieces to this puzzle discovered through the millennia, particularly, over the last one hundred years.

What we are attempting to undertake in this work is what has embroiled many through the past ages and still beckons as unreachable to some today.

Cracking the code depends on several key factors, especially the code disintegrator, which plays a major role in it as will be seen shortly. Cracking the code and its discovery will undoubtedly bring about a clarification of the material side of life and point out its origin as it has evolved to be what is today—a complicated and uncertain universe.....

Our Inner Resources

Before we embark upon this journey, let us take stock of our own mental resources, the non-physical aspects of our existence with respect to the physical universe, with which we are in constant association. We need to grasp our own position in space, where we are at the moment, our wherewithal, our spiritual and mental resources, and above all, what we are doing here as a species, before we can understand the essence of our universe.

Upon close observation we can uncover some amazing discoveries about ourselves. We quickly learn that we are fortunate indeed! We find ourselves in a body form, a low combustion carbon–oxygen engine, a physically feeble entity, which cannot tolerate much force. It seems that we have been left alone in a very desolate place.

We are an inhabitant of a thin crust of a minor planet of an inconsequential star in just one of the millions of galaxies in the universe. However, *we are born with the ability to observe, to communicate, to reason, to understand our surroundings, to thus be able to solve our essential survival problems, and moreover, to find out our relationship to the physical universe with which we are intimately associated.*

"Ability will never catch up with the demand for it."

—Malcolm Forbes (1919 - 1990)
American Author & Publisher

We do not merely exist or survive by tooth and claw or by rote and instinct basis like the rest of the earth's creatures. We ask the why and how of things. To find answers to the mysteries and riddles of this physical universe....

Epilogue

Cracking the code of the physical universe has a special meaning in this work. It does not mean that by finding the code one is then able to obliterate or destroy the physical universe. Quite the contrary, acquiring the combination to the code enables one to soar to new heights of existence and enlightenment, and become cause over the material universe to a point of commanding it and actually observing before one's eyes that his commands are carried out to the fullest extent.

Such a feat and accomplishment requires the presence of several key factors, which have been explained in depth and fully illustrated throughout this work.

In summary, to crack the code of the physical we need the most essential element and that is.....

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Reference/Science/Technology/Philosophy

... You are going on a journey, a road to "discovery and knowledge," if you will, and will come away at the end with a heightened awareness of many facets of our universe, hopefully leading to a more joyful, causative, and rewarding life.

—Dr. Matthew M. Radmanesh,
From "Cracking the Code of Our Physical Universe"

You will discover:

- The Two Facets of Our Existence
- The Powerful Realm of Postulates
- The Main Secrets of Our Universe
- The Phenomena of Space and Time
- The Relation of Energy and Matter
- The Six Codes Making Up the Final Key
- An Ideal Fusion of Science and Philosophy
- The Code Disintegrator to Crack any Code
- The Reason for "How And Why" of Our World
- A Lively Presentation of the Time Tested Principles
- How the Microscopic Atoms Rule the Macroscopic Galaxies
- Indispensable Solutions to Many Aspects of Our Complex World

"This work is based on sound and down-to-earth principles that make it accessible to the general reader."

—Dr. Asad M. Madni, President & COO,
BEI Technologies, Inc.

"This is an excellent book that sets itself apart from any book in its genre. "

—Dr. Nagi El Naga, ECE Dept. Chair,
California State University, Northridge

"This Revolutionary Book provides depth of thought and breadth of concepts applied to the integrations of science and philosophy. It is a fabulous piece of work!"

—Dr. Tom R. Mincer, Professor of Mechanical Engineering,
California State University, Northridge

"A must have, must read book for any and all people in any and every profession. This is absolutely the most practical book on understanding our world."

—H. Bruce Hanes, President,
Hanes Investment Realty, Inc.

Matthew M. Radmanesh, Ph.D., is currently a faculty member in the electrical and computer engineering (ECE) department at California State University, Northridge, CA. Dr. Radmanesh is a senior member of IEEE, and holds two patents for his pioneering work in Microwaves.

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