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Foreword by Dr. Asad Madni, C. Eng., Fellow IEEE, Fellow IEE Learn the fundamentals of RF and microwave electronics visually, using many thoroughly tested, practical examples RF and microwave technology are essential throughout industry and to a world of new applications-in wireless communications, in Direct Broadcast TV, in Global Positioning System (GPS), in healthcare, medical and many other sciences. Whether you're seeking to strengthen your skills or enter the field for the first time, Radio Frequency and Microwave Electronics Illustrated is the fastest way to master every key measurement, electronic, and design principle you need to be effective. Dr. Matthew Radmanesh uses easy mathematics and a highly graphical approach with scores of examples to bring about a total comprehension of the subject. Along the way, he clearly introduces everything from wave propagation to impedance matching in transmission line circuits, microwave linear amplifiers to hard-core nonlinear active circuit design in Microwave Integrated Circuits (MICs). Coverage includes: A scientific framework for learning RF and microwaves easily and effectively Fundamental RF and microwaves concepts and their applications The characterization of two-port networks at RF and microwaves using S-parameters Usa of the Smith Chart to simplify analysis of complex design problems Key design considerations for microwave amplifiers: stability, gain, and noise Workable considerations in the design of practical active circuits: amplifiers, oscillators, frequency converters, control circuits RF and Microwave Integrated Circuits (MICs) Novel use of "live math" in circuit analysis and design Dr. Radmanesh has drawn upon his many years of practical experience in the microwave industry and educational arena to introduce an exceptionally wide range of practical concepts and design methodology and techniques in the most comprehensible fashion. Applications include small-signal, narrow-band, low noise, broadband and multistage transistor amplifiers; large signal/high power amplifiers; microwave transistor oscillators, negative-resistance circuits, microwave mixers, rectifiers and detectors, switches, phase shifters and attenuators. The book is intended to provide a workable knowledge and intuitive understanding of RF and Microwave electronic circuit design. Radio Frequency and Microwave Electronics Illustrated includes a comprehensive glossary, plus appendices covering key symbols, physical constants, mathematical identities/formulas, classical laws of electricity and magnetism, Computer-Aided-Design (CAD) examples and more. About the Web Site The accompanying web site has an "E-Book" containing actual design examples and methodology from the text, in Microsoft Excel environment, where files can easily be manipulated with fresh data for a new design.

RF & Microwave Design Essentials This book is an indispensable tool for the RF/Microwave engineer as well as the scientist in the field working on the high frequency circuit applications. You will discover:] Electricity Fundamentals] Wave propagation] Amplifier Design] Gain Equations] CAD Examples] S-Parameters] Circuit Noise] RF Design] Circuit Stability] Transmission Lines] RF/Microwave Bands] Matching Circuit Design] Smith Chart Applications] BJT and FET Circuit Design] Advanced RF/Microwave Concepts The most realistic and inspiring book with invaluable practical insights. Dr. S. K. Ramesh, Dean of Engineering, California State University, Northridge A completely unique book that unlocks the mysteries of our microwave world. Paul Luong, Senior Microwave Engineer ATK Mission Systems, Inc. The CD-ROM provides design worksheets and menus as well as actual design examples in a Microsoft(r) Excel Environment, where the student can design or analyze RF/Microwave circuits easily and efficient

RF and Microwaves is currently in the forefront as a fundamental technology in numerous industrial and commercial applications. As applications of RF and microwaves continue to evolve and as this technology becomes a common factor in the scientific and engineering communities it is imperative that university students and practicing scientists and engineers become thoroughly familiar with the measurement principles, electronics, and design fundamentals underlying this technology. RF and Microwaves is currently in the forefront as a fundamental technology in numerous industrial and commercial applications. As applications of RF and microwaves continue to evolve and as this technology becomes a common factor in the scientific and engineering communities it is imperative that university students and practicing scientists and engineers become thoroughly familiar with the measurement principles, electronics, and design fundamentals underlying this technology. Advanced RF & Microwave Circuit Design is the quickest way to master this powerful subject, and information contained within the pages of this book will make every key electronic, measurement, and design principle you need a simple task. The book introduces concepts on a wide range of materials and has several advantages over existing texts, including: 1. The presentation of a series of scientific postulates and axioms, which lays the foundation for any of the engineering sciences and is unique to this book compared with similar RF and Microwave texts. 2. The presentation of classical laws and principles of electricity and magnetism, all inter-related, conceptually and graphically. 3. There is a shift of emphasis from rigorousmathematical solutions of Maxwell's equations, and instead has been aptly placed on simple yet fundamental concepts that underlie these equations. This shift of emphasis will promote a deeper understanding of the electronics, particularly at RF/Microwave frequencies. 4. Fundamentals of electronics have been amply treated, which makes an easy transition to RF/Microwave principles and prevents a gap of knowledge in the reader's mind.

The book introduces concepts on a wide range of materials and has several advantages over existing texts, including: 1. The presentation of a series of scientific postulates and laws of RF and microwaves, which lay the foundation for the behavior of waves and their propagation on transmission lines, is unique to this book compared with similar RF and Microwave texts. 2. The presentation of classical laws and principles of electricity and magnetism, all inter-related, conceptually and graphically. 3. There is a shift of emphasis from rigorous mathematical solutions of Maxwell ' s equations, and instead has been aptly placed on simple yet fundamental concepts that underlie these equations. This shift of emphasis will promote a deeper understanding of the electronics, particularly at RF/Microwave frequencies. 4. Wave propagation in free space and transmission lines has been amply treated from a totally new standpoint. Designing RF/Microwave passive circuits using the Smith Chart as covered in this book becomes a systematic and yet pleasant task, which can easily be duplicated by any practitioner in the field. 5. New technical terms are precisely defined as they are first introduced, thereby keeping the subject matter in focus and preventing misunderstanding, and 6. Finally the abundant use of graphical illustrations and diagrams brings a great deal of clarity and conceptual understanding, enabling difficult concepts to be understood with ease. The fundamentals of RF and microwave electronics can be mastered visually, through many tested practical examples in the book and in the accompanying CD using Microsoft Excel ® environment. This book is perfect for RF/microwave newcomers or industry veterans! The material is presented lucidly and effectively through worked practical examples using both clear-cut math and vivid illustrations, which help the reader gain practical knowledge in passive circuit design using the Smith Chart.

What sets this book apart is the fact that it is not just another science book describing scientific facts and phenomenal 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 unraveled 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!

You will discover: The Business World in a Nutshell Who Do You Have to Be to Succeed Scientific Fundamentals of Business The Relativity of Business Knowledge Timeless Principles of Business Advanced Business Principles Understanding Time Wasters Economics As a Subset of Life The Seven Levers of Leverage Principles of Lifelong Selling Unlimited Income Strategies Creating Streams of Income The Five Echelons to Climb The Fifty Genius Traits Selling as a Way of Life The Essence of Money

This book is an attempt to make something unified of the accumulations of a lifetime of thoughts and impressions can be likened unto an archeologist piecing together random shards and bones in an effort to establish the culture of an ancient society.

Reference/Business/Management/Philosophy/Science The Modern Philosophy & Science of Investment An indispensable tool for the average investor desiring to climb to a higher plateau of affluence and abundance! "This book is one's ultimate weapon in the modern world to become a superior investor with an unusually high investment IQ to confront and conquer all of the doom and gloom of the economic and political upheavals in our society with relative ease." Dr. Matthew M. Radmanesh From "The Modern Philosophy & Science of Investment " You will discover: The Pyramid of life The Scientific Methodology in Investment The General Certainty Principle The Entropy Principle Unification of Life and Business The New Unified Theory Reward to Risk Ratio The PE Index The Postulates and Axioms of Investment The Pyramid of Knowledge in Investment The F7 Investment System The Golden Goose Principle The Growth-Share Matrix Cash Cow Figures of Merit The Logarithmic Investor The Margin of Safety " This book is the road map leading to the recovery of great mental abilities and the discovery of physical treasures that would guarantee enormous success in life or business." Dr. Matthew M. Radmanesh From "The Modern Philosophy & Science of Investment" Other Books by Dr. Matthew M. Radmanesh The Gateway to Prosperity System, 2015, 751 Pages. Advanced Principles of Success & Prosperity, 2012, 622 Pages. The Ultimate Keys to Success in Business and Science, 2008, 464 Pages. Cracking the Code of Our Physical Universe, 2006, 416 Pages. The Gateway to Understanding: Electrons to Waves and Beyond, 2005, 678 Pages. 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 member of Tau Beta Pi and Eta Kappa Nu Honor societies, and holds two patents for his pioneering works in Microwaves and Millimeter waves. WWW.KRCbooks.com

RF and Microwaves is currently in the forefront as a fundamental technology in numerous industrial and commercial applications. As applications of RF and microwaves continue to evolve and as this technology becomes a common factor in the scientific and engineering communities it is imperative that university students and practicing scientists and engineers become thoroughly familiar with the measurement principles, electronics, and design fundamentals underlying this technology. RF and Microwaves is currently in the forefront as a fundamental technology in numerous industrial and commercial applications. As applications of RF and microwaves continue to evolve and as this technology becomes a common factor in the scientific and engineering communities it is imperative that university students and practicing scientists and engineers become thoroughly familiar with the measurement principles, electronics, and design fundamentals underlying this technology. Advanced RF & Microwave Circuit Design is the quickest way to master this powerful subject, and information contained within the pages of this book will make every key electronic, measurement, and design principle you need a simple task. The book introduces concepts on a wide range of materials and has several advantages over existing texts, including: 1. The presentation of a series of scientific postulates and axioms, which lays the foundation for any of the engineering sciences and is unique to this book compared with similar RF and Microwave texts. 2. The presentation of classical laws and principles of electricity and magnetism, all inter-related, conceptually and graphically. 3. There is a shift of emphasis from rigorous mathematical solutions of Maxwells equations, and instead has been aptly placed on simple yet fundamental concepts that underlie these equations. This shift of emphasis will promote a deeper understanding of the electronics, particularly at RF/Microwave frequencies. 4. Fundamentals of electronics have been amply treated, which makes an easy transition to RF/Microwave principles and prevents a gap of knowledge in the readers mind.

Everyone, in today's society, is struggling with this mysterious thing called the business world and strives toward a higher understanding of its inner workings, and yet most books present the basic concepts with so much complexity and filled with so many arbitrary factors that the general public has given up on the subject and perforce has decided to retire to the sideline to be a spectator. In other words, his hope has been dashed aside and his dream of a higher understanding has not been fulfilled in any of the books. The present work is the culmination of many years of study, observation, and pondering on the dilemmas and enigmas of the business world. Within the confines of this book, one is given a chance to take an in-depth look and inspect first-hand, the code ombination of what makes a successful business. The basics are laid in simple terms and clear explanations express the powerful principles lucidly and dynamically, providing an unforgettable impression in the reader's mind. By avoiding undue complexities, the reader will achieve simplicity of thought and will be actually traveling in the direction of the actual why and thus be able to understand how to set up and manage any business. 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 The office workers and managers, The Business minded individuals, The business owners, The professional managers. This book will surely serve also an important class of our societythe technical inventors who is looking for inspirations and new ideas to imbue him with enough understanding to finalize and materialize his thoughts into reality. The broad importance of this work could be summed up as laying the foundation for the business world on a scientific basis where arbitrary factors are removed and technical superiority is substituted.

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