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“New Physics Framework” proposes physical models of the photon and electron and more complex derivatives, namely proton, neutron, atom, molecule, and gas structures. Physical models are also proposed for the four fundamental forces. Establishment of all of these models is based on the substantiation of the electron model and its derived mathematics. By understanding and substantiating the electron model, we can now physically understand phenomena such as the magnetic dipole moment, electromagnetic radiation, electric force, heat, movement of radiation into and out of hydrogen atoms, Pauli's exclusion principle, Lenz's law, the Lamb shift, and mass and its increase with velocity. Understanding whether dark matter and energy are relevant is also studied. /// “New Physics Framework” greatly simplifies our understanding of the physical world. The framework dispenses with the requirement of abstract models described by complex and abstract mathematics. Merging of quantum mechanics with general relativity, which are based on separate unrelated theories, is not required in the new framework, where the four fundamental forces work at the atomic level and gravity works at large scales as well. This invaluable book presents selected papers of S Chandrasekhar, co-winner of the Nobel Prize for Physics in 1983 and a scientific giant well known for his prolific and monumental contributions to astrophysics, physics and applied mathematics. The reader will find here most of Chandrasekhar's articles that led to major developments in various areas of physics and astrophysics. There are also articles of a popular and historical nature, as well as some hitherto unpublished material based on Chandrasekhar's talks at conferences. Each section of the book contains annotations by the editor. Contents: Volume 1: Early Years – The Theory of White Dwarfs and Stellar Interiors Radiative Transfer, the Polarization of the Sunlit Sky, and the Negative Ion of Hydrogen Stochastic and Statistical Problems in Astronomy Turbulence and Hydromagnetic Problems in Astrophysics Hydrodynamic and Hydromagnetic Stability Volume 2: Ellipsoidal

Figures of Equilibrium Relativistic Instabilities and Post-Newtonian Approximations  
The Mathematical Theory of Black Holes – Colliding Waves  
The Nonradial Oscillations of Stars in General Relativity  
Miscellaneous Writings

Readership: Researchers in astronomy, astrophysics and cosmology. Keywords: Astrophysics; Cosmology; Astrophysics; Astronomy; Physics; Applied Mathematics

Reviews: "It is a great pleasure to dip into Kameshwar Wali's rich selection from the works of the great Chandra, and to read Wali's illuminating comments. In addition to the seminal scientific papers, organized by subject, sometimes establishing whole fields of physics and astronomy, and almost bringing them to conclusion, the volumes include more than 300 pages of 'semi-popular' articles and talks (some previously unpublished), whose philosophical depth and beauty of expression would alone recommend these 'selected works'." Laurie M Brown Northwestern University "Apart from knowing the works of great scientists, students of science should also learn something about the creative process through which these scientists achieved them. In the case of Chandra, these papers give a glimpse into the mind of a highly methodical person who had identified his goals and worked hard and creatively to get there. For such readers Wali has done a commendable job, for which we should be thankful." Professor Jayant V Narlikar The Inter University Centre for Astronomy and Astrophysics "... I am glad to find an opportunity to formulate an encouragement to proceed ahead with Chandra's legacy, and my faith in these new directions of astrophysical research. In forthcoming decades, these superb volumes of collected works ought to play an invaluable role." Anne Magnon CUST-Blaise Pascal University "Wali's choices in these two volumes are a more selective and more interesting subset, picked as much to give a sense of the man as of the science ... Chandra's celebrated Reviews of Modern Physics article 'Stochastic Problems in Physics and Astronomy' (1943) alone is worth the price of the volume ... Fascinating also are the two 1953 papers by Chandra and Enrico Fermi, the writing of which Chandra later remembered as one of the most exciting experiences of his scientific career." Physics Today "The latter topic contains some fascinating essays and accounts of interdisciplinary lectures." Mathematical Reviews

This volume sheds light on still unexplored issues and raises new questions in the main areas addressed by the philosophy of science. Bringing together selected papers from three main events, the book presents the most advanced scientific results in the field and suggests innovative lines for further investigation. It explores how discussions on several notions of the philosophy of science can help different scientific disciplines in learning from each other. Finally, it focuses on the relationship between Cambridge and Vienna in twentieth century philosophy of science. The areas examined in the book are: formal methods, the philosophy of the natural and life sciences, the cultural and social sciences, the physical sciences and the history of the philosophy of science. "Featuring more than five hundred questions with worked out solutions and detailed illustrations, this book is integrated with the APlusPhysics.com website, which includes online question and answer forums, videos, animations, and supplemental problems to help you master Honors in physics essentials."--Page 4 of cover. Dimensional Analysis and Physical Similarity are well understood subjects, and the general concepts of dynamical similarity are explained in this book. Our exposition is essentially different from those available in the literature, although it follows the general ideas known as Pi Theorem. There are many excellent books that one can refer to; however, dimensional analysis goes beyond Pi theorem, which is also known as Buckingham's Pi Theorem. Many techniques via self-similar solutions can bound solutions to problems that seem intractable. A time-developing phenomenon is called self-similar if the spatial distributions of its properties at different points in time can be obtained from one

another by a similarity transformation, and identifying one of the independent variables as time. However, this is where Dimensional Analysis goes beyond Pi Theorem into self-similarity, which has represented progress for researchers. In recent years there has been a surge of interest in self-similar solutions of the First and Second kind. Such solutions are not newly discovered; they have been identified and named by Zel'dovich, a famous Russian Mathematician in 1956. They have been used in the context of a variety of problems, such as shock waves in gas dynamics, and filtration through elasto-plastic materials. Self-Similarity has simplified computations and the representation of the properties of phenomena under investigation. It handles experimental data, reduces what would be a random cloud of empirical points to lie on a single curve or surface, and constructs procedures that are self-similar. Variables can be specifically chosen for the calculations.

Have you ever been told that you have a great voice? Put it to use in a career as a voiceover actor! Veteran voice-over actor, writer, producer, and teacher Janet Wilcox provides the inside scoop on the industry and personal training to help voice-over hopefuls find work in network promos, commercials, documentaries, books on tape, radio, animated films, and more! This rich resource comes with a CD-ROM featuring vocal exercises and interviews with voice-over actors. Readers will discover a treasure trove of useful information, including: Acting warm-ups Vocal workouts Improv sketches Character work sheets Tips for making demos Sample V.O. scripts Interviews with show biz heavyweights Casting insights Advice on getting professional representation Secrets to finding opportunities in traditional and emerging venues And much more!

Voiceovers, Second Edition shows readers how to use that great voice to garner cash and compliments. Allworth Press, an imprint of Skyhorse Publishing, publishes a broad range of books on the visual and performing arts, with emphasis on the business of art. Our titles cover subjects such as graphic design, theater, branding, fine art, photography, interior design, writing, acting, film, how to start careers, business and legal forms, business practices, and more. While we don't aspire to publish a New York Times bestseller or a national bestseller, we are deeply committed to quality books that help creative professionals succeed and thrive. We often publish in areas overlooked by other publishers and welcome the author whose expertise can help our audience of readers.

A comprehensive, step-by-step reference to the Nyström Method for solving Electromagnetic problems using integral equations Computational electromagnetics studies the numerical methods or techniques that solve electromagnetic problems by computer programming. Currently, there are mainly three numerical methods for electromagnetic problems: the finite-difference time-domain (FDTD), finite element method (FEM), and integral equation methods (IEMs). In the IEMs, the method of moments (MoM) is the most widely used method, but much attention is being paid to the Nyström method as another IEM, because it possesses some unique merits which the MoM lacks. This book focuses on that method—providing information on everything that students and professionals working in the field need to know. Written by the top researchers in electromagnetics, this complete reference book is a consolidation of advances made in the use of the Nyström method for solving electromagnetic integral equations. It begins by introducing the fundamentals of the electromagnetic theory and computational electromagnetics, before proceeding to illustrate the advantages unique to the Nyström method through rigorous worked out examples and equations. Key topics include quadrature rules, singularity treatment techniques, applications to conducting and penetrable media, multiphysics electromagnetic problems, time-domain integral equations, inverse scattering problems and incorporation with multilevel fast multiple algorithm. Systematically introduces the fundamental principles,

equations, and advantages of the Nyström method for solving electromagnetic problems. Features the unique benefits of using the Nyström method through numerical comparisons with other numerical and analytical methods. Covers a broad range of application examples that will point the way for future research. The Nystrom Method in Electromagnetics is ideal for graduate students, senior undergraduates, and researchers studying engineering electromagnetics, computational methods, and applied mathematics. Practicing engineers and other industry professionals working in engineering electromagnetics and engineering mathematics will also find it to be incredibly helpful.

**BACKGROUND: DEPARTMENTS, SPECIALIZATION, AND PROFESSIONALIZATION IN AMERICAN HIGHER EDUCATION**

For over half of its history, U.S. higher education turned out mostly cler gymen and lawyers. Looking back on that period, we might be tempted to think that this meant specialized training for the ministry or the practice of law. That, however, was not the case. What a college education in the U.S. prepared young men (almost exclusively) for, from the founding of Harvard College in 1636 through the founding of hundreds of denominational colleges in the first two-thirds of the nineteenth century, was leadership in the community. Professionalization and specialization only began to take root, and then became the dominant mode in U.S. higher education, in the period roughly from 1860--1920. In subsequent decades, that seemed to many critics to signal the end of what might be called "education in wisdom," the preparation of leaders for a broad range of responsibilities. Professionalization, specialization, and departmentalization of higher education in the U.S. began in the last quarter of the nineteenth century. The brilliantly told and gripping story of the most familiar - yet, amazingly, still poorly understood - substance in the universe: Water. The extent to which water remains a scientific mystery is extraordinary, despite its prevalence and central importance on Earth. Whether one considers its role in biology, its place in the physical world (where it refuses to obey the usual rules of liquids) or its deceptively simple structure, there is still no complete answer to the question: what is water? Philip Ball's book explains what, exactly, we do and do not know about the strange character of this most essential and ubiquitous of substances. H<sub>2</sub>O begins by transporting its readers back to the Big Bang and the formation of galaxies to witness the birth of water's constituent elements: hydrogen and oxygen. It then explains how the primeval oceans were formed four billion years ago; where water is to be found on other planets; why ice floats when most solids sink; why, despite being highly corrosive, water is good for us; why there are at least fifteen kinds of ice and perhaps two kinds of liquid water; how scientists have consistently misunderstood water for centuries; and why wars have been waged over it. Philip Ball's gloriously offbeat and intelligent book conducts us on a journey through the history of science, folklore, the wilder scientific fringes, cutting-edge physics, biology and ecology, to give a fascinating new perspective on life and the substance that sustains it. After reading this book, drinking a glass of water will never be the same again. Philosophy and mathematics grew up together in the days of Pythagoras and Plato. Indeed, they have been in constant companionship and interaction ever since. This book examines 15 of these interactions, some dealing with the greats of history such as Aristotle and Leibniz, some addressing modern greats such as Einstein, Schrodinger, and Gödel, and some dealing not with themes, but rather the thinkers. Taken together they represent a characteristic sampling of the author's philosophical investigations over more than three decades.

Eternal Way to Bliss is about Kesari's soul stirring journey, an ordinary girl who wants to be free. It's her quest to seek truth, happiness, and solutions for life's challenges. This is about her entrapment in the world, the grand design of her mind, and her journey towards freedom. Like each one of us, she is

earnestly seeking guidance for making life evolutionary, transforming from feeling incomplete to being complete...whole. As she seeks and explores, an ancient wisdom tradition becomes her guiding light. Starting from her distress and disillusionment with the world, she articulates her search for answers, meaning, solutions; and for consciousness and bliss. The theme rhymes with the Bhagavad Gita and summarizes its teachings. Having faith in this time-tested path for liberation, she unravels the discoveries made. Being a householder with a family and a career in the Silicon Valley, Kesari 's quest becomes real and achievable. As a Hindu of Indian origin living in America she presents a global, modern perspective. She brings this deep and complex wisdom to us in a simple, practical, concise yet authentic way. The problem is that her journey is not yet complete... Welcome to her world, the truthful tale of an imperfect human. Is economics a science? Deidre McCloskey says 'Yes, but'. Yes, economics measures and predicts, but - like other sciences - it uses literary methods too. Economists use stories as geologists do, and metaphors as physicists do. The result is that the sciences, economics among them, must be read as 'rhetoric', in the sense of writing with intent. McCloskey's books, *The Rhetoric of Economics*(1985) and *If You're So Smart*(1990), have been widely discussed. In *Knowledge and Persuasion in Economics* he converses with his critics, suggesting that they too can gain from knowing their rhetoric. The humanistic and mathematical approaches to economics, says McCloskey, fit together in a new 'interpretive' economics. Along the way he places economics within the sciences, examines the role of mathematics in the field, replies to critics from the left, right and centre, and shows how economics can again take a leading place in the conversation of humankind. Featuring more than five hundred questions from past Regents exams with worked out solutions and detailed illustrations, this book is integrated with APlusPhysics.com website, which includes online questions and answer forums, videos, animations, and supplemental problems to help you master Regents Physics Essentials. The new standard reference on mathematical functions, replacing the classic but outdated handbook from Abramowitz and Stegun. Includes PDF version. *Nonlinear Systems and Their Remarkable Mathematical Structures, Volume 2* is written in a careful pedagogical manner by experts from the field of nonlinear differential equations and nonlinear dynamical systems (both continuous and discrete). This book aims to clearly illustrate the mathematical theories of nonlinear systems and its progress to both non-experts and active researchers in this area. Just like the first volume, this book is suitable for graduate students in mathematics, applied mathematics and engineering sciences, as well as for researchers in the subject of differential equations and dynamical systems. Features Collects contributions on recent advances in the subject of nonlinear systems Aims to make the advanced mathematical methods accessible to the non-experts Suitable for a broad readership including researchers and graduate students in mathematics and applied mathematics The untold story of the heretical thinkers who dared to question the nature of our quantum universe Every physicist agrees quantum mechanics is among humanity's finest scientific achievements. But ask what it means, and the result will be a brawl. For a century, most physicists have followed Niels Bohr's Copenhagen interpretation and dismissed questions about the reality underlying quantum physics as meaningless. A mishmash of solipsism and poor reasoning, Copenhagen endured, as Bohr's students vigorously protected his legacy, and the physics community favored practical experiments over philosophical arguments. As a result, questioning the status quo long meant professional ruin. And yet, from the 1920s to today, physicists like John Bell, David Bohm, and Hugh Everett persisted in seeking the true meaning of quantum mechanics. *What Is Real?* is the gripping story of this battle of ideas and the courageous scientists who dared to stand up for truth. Grid

architecture is Oracle's strategy for high-end computing and RAC is the stepping stone into this arena. This book focuses on current technology including all valid RAC features up through Oracle Database 10g Release 2, with a primary focus on deploying it in a high-end grid environment. The book discusses this technology at length which users will find beneficial when researching, implementing or monitoring a RAC environment. The author covers workshop implementation of services and the distribution of workload across instances, with threshold definitions and the new load balancing algorithms. In addition it includes detailed discussions on ASM that complements the implementation of RAC in Oracle Grid strategy. The book also includes discussions on new Oracle Clusterware, its components and its integration with RAC. Oracle 10g RAC focuses on RAC-specific topics including ASM, operating system configuration, installation and configuration of RAC and much more. Coverage includes network configuration for high availability, FAN, TAF, ONS, implementation of maximum availability architecture (MAA), EM Grid Control, AWR, ADDM and other performance-related tools. The author includes several scripts for performance tuning and implementation that the reader can use to configure a RAC environment either on a 2, 4, 8, 60 or 99 node configuration. Focuses on implementing, testing and tuning features of Real Application Clusters (RAC) database version 10g Release 2 Provides extensive coverage of usage, day-to-day functions and operations Includes tips and techniques such as script samples to illustrate various features of RAC A jumpstart into all the key features of 10g R2 RAC Key Features: Covers problems of real life situations to develop learners' problem solving skills. Ideal for students willing to sharpen their engineering aptitude. Graded problems to suit average as well as high level students. About the Book: The book is an excellent classic on physics having relevance for the students of physical science at the senior secondary and undergraduate levels. It presents the problems with The related concepts at length under six core sections. For the ease of students appropriate formulas are given in each section. All difficult problems are explained in a lucid manner. The answers to all the problems are given at the end of the book. Comprehensive directory of databases as well as services "involved in the production and distribution of information in electronic form." There is a detailed subject index and function/service classification as well as name, keyword, and geographical location indexes. This book focuses on the origin of the Gielis curves, surfaces and transformations in the plant sciences. It is shown how these transformations, as a generalization of the Pythagorean Theorem, play an essential role in plant morphology and development. New insights show how plants can be understood as developing mathematical equations, which opens the possibility of directly solving analytically any boundary value problems (stress, diffusion, vibration...) . The book illustrates how form, development and evolution of plants unveil as a musical symphony. The reader will gain insight in how the methods are applicable in many divers scientific and technological fields. Goyal Brothers Prakashan An account of conflicts within engineering in the 1960s that helped shape our dominant contemporary understanding of technological change as the driver of history. In the late 1960s an eclectic group of engineers joined the antiwar and civil rights activists of the time in agitating for change. The engineers were fighting to remake their profession, challenging their fellow engineers to embrace a more humane vision of technology. In *Engineers for Change*, Matthew Wisnioski offers an account of this conflict within engineering, linking it to deep-seated assumptions about technology and American life. The postwar period in America saw a near-utopian belief in technology's beneficence. Beginning in the mid-1960s, however, society—influenced by the antitechnology writings of such thinkers as Jacques Ellul and Lewis Mumford—began to view technology in a

more negative light. Engineers themselves were seen as conformist organization men propping up the military-industrial complex. A dissident minority of engineers offered critiques of their profession that appropriated concepts from technology's critics. These dissidents were criticized in turn by conservatives who regarded them as countercultural Luddites. And yet, as Wisnioski shows, the radical minority spurred the professional elite to promote a new understanding of technology as a rapidly accelerating force that our institutions are ill-equipped to handle. The negative consequences of technology spring from its very nature—and not from engineering's failures. “Sociotechnologists” were recruited to help society adjust to its technology. Wisnioski argues that in responding to the challenges posed by critics within their profession, engineers in the 1960s helped shape our dominant contemporary understanding of technological change as the driver of history.

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As the need for proficient power resources continues to grow, it is becoming increasingly important to implement new strategies and technologies in energy distribution to meet consumption needs. The employment of smart grid networks assists in the efficient allocation of energy resources. Smart Grid as a Solution for Renewable and Efficient Energy features emergent research and trends in energy consumption and management, as well as communication techniques utilized to monitor power transmission and usage. Emphasizing developments and challenges occurring in the field, this book is a critical resource for researchers and students concerned with signal processing, power demand management, energy storage procedures, and control techniques within smart grid networks. The first successful field theory was created by the Scottish Physicist James Clerk Maxwell in the mid-19th century - the electromagnetic field theory. Then in the early 1900s, Einstein spent 30yrs of his life developing a unified field theory but all in vain. One limitation with Einstein's work was at first his rejection, and then his ignorance of quantum theory. Einstein was motivated by an intellectual need to unify the forces of nature. He felt very strongly that all of nature must be described by a simple force field theory from which all other forces can be deduced. In principle, if one had the formula of a Unified field theory at hand, it would be possible to derive every other natural law from them, including all the laws of physics, chemistry, even molecular biology. Without the use of the mathematics of the standard model and the notions of Einstein's general relativity theory, we postulate a single force field equation from which all other physics laws are derived. This ground-breaking reference provides an overview of key concepts in dimensional analysis, and then pushes well beyond traditional applications in fluid mechanics to demonstrate how powerful this tool can be in solving complex problems across many diverse fields. Of particular interest is the book's coverage of dimensional analysis and self-similarity methods in nuclear and energy engineering. Numerous practical examples of dimensional problems are presented throughout, allowing readers to link the book's theoretical explanations and step-by-step mathematical solutions to practical implementations. General physics, atomic physics, molecular physics, and solid state physics. This invaluable book presents selected papers of S Chandrasekhar, co-winner of the Nobel Prize for Physics in 1983 and a scientific giant well known for his prolific and monumental contributions to astrophysics, physics and applied mathematics. The reader will find here most of Chandrasekhar's articles that led to major developments in various areas of physics and astrophysics. There are also articles of a popular and historical nature, as well as some



hitherto unpublished material based on Chandrasekhar's talks at conferences. Each section of the book contains annotations by the editor. This title examines the dynamics of the globalisation processes and the emergence of new locations for innovation and its implications. A comprehensive introduction to using modeling and simulation programs in drug discovery and development Biopharmaceutical modeling has become integral to the design and development of new drugs. Influencing key aspects of the development process, including drug substance design, formulation design, and toxicological exposure assessment, biopharmaceutical modeling is now seen as the linchpin to a drug's future success. And while there are a number of commercially available software programs for drug modeling, there has not been a single resource guiding pharmaceutical professionals to the actual tools and practices needed to design and test safe drugs. A guide to the basics of modeling and simulation programs, *Biopharmaceutics Modeling and Simulations* offers pharmaceutical scientists the keys to understanding how they work and are applied in creating drugs with desired medicinal properties. Beginning with a focus on the oral absorption of drugs, the book discusses: The central dogma of oral drug absorption (the interplay of dissolution, solubility, and permeability of a drug), which forms the basis of the biopharmaceutical classification system (BCS) The concept of drug concentration How to simulate key drug absorption processes The physiological and drug property data used for biopharmaceutical modeling Reliable practices for reporting results With over 200 figures and illustrations and a peerless examination of all the key aspects of drug research—including running and interpreting models, validation, and compound and formulation selection—this reference seamlessly brings together the proven practical approaches essential to developing the safe and effective medicines of tomorrow. *Inner Space/Outer Space* brings together much of the exciting work contributing to a new synthesis of modern physics. Particle physicists, concerned with the "inner space" of the atom, are making discoveries that their colleagues in astrophysics, studying outer space, can use to develop and test hypotheses about the events that occurred in the microseconds after the Big Bang and that shaped the universe as we know it today. The papers collected here, from scores of scientists, constitute the proceedings of the first major international conference on research at the interface of particle physics and astrophysics, held in May 1984. The editors have written introductions to each major section that draw out the central themes and elaborate on the primary implications of the papers that follow. As the use of remote work has recently skyrocketed, digital transformation within the workplace has gone under a microscope, and it has become abundantly clear that the incorporation of new technologies in the workplace is the future of business. These technologies keep businesses up to date with their capabilities to perform remote work and make processes more efficient and effective than ever before. In understanding digital transformation in the workplace there needs to be advanced research on technology, organizational change, and the impacts of remote work on the business, the employees, and day-to-day work practices. This advancement to a digital work culture and remote work is rapidly undergoing major advancements, and research is needed to keep up with both the positives and negatives to this transformation. *The Research Anthology on Digital Transformation, Organizational Change, and the Impact of Remote Work* contains hand-selected, previously published research that explores the impacts of remote work on business workplaces while also focusing on digital transformation for improving the efficiency of work. While highlighting work technologies, digital practices, business management, organizational change, and the effects of remote work on employees, this book is an all-encompassing research work intended for managers, business

owners, IT specialists, executives, practitioners, stakeholders, researchers, academicians, and students interested in how digital transformation and remote work is affecting workplaces.

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