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Electromagnetic Pulse Propagation in Casual Dielectrics-Kurt E. Oughstun 2012-12-06 This research monograph presents a systematic treatment of the theory of the propagation of transient electromagnetic fields (such as optical pulses) through dielectric media which exhibit both dispersion and absorption. The work divides naturally into two parts. Part I presents a summary of the fundamental theory of the radiation and propagation of rather general electromagnetic waves in causal, linear media which are homogeneous and isotropic but which otherwise have rather general dispersive and absorbing properties. In Part II, we specialize on the propagation of a plane, transient electromagnetic field in a homogeneous dielectric. Although we have made some contributions to the fundamental theory given in Part I, most of the results of our own research appear in Part II. The purpose of the theory presented in Part II is to predict and to explain in explicit detail the dynamics of the field after it has propagated far enough through the medium to be in the mature-dispersion regime. It is the subject of a classic theory, based on the research conducted by A. Sommerfeld and L.

Stochastic Climate Theory-Serguei G. Dobrovolski 2013-11-11 The author describes the stochastic (probabilistic) approach to the study of changes in the climate system. Climatic data and theoretical considerations suggest that a large part of climatic variation/variability has a random nature and can be analyzed using the theory of stochastic processes. This work summarizes the results of processing existing records of climatic parameters as well as appropriate theories: from the theory of random processes (based on the results of Kolmogorov and Yaglom) and Hasselmann's "stochastic climate model theory" to recently obtained results.

Managing Your Software Project-Ian Ricketts 2012-12-06 About this Book I wrote this book to help students who are about to start their first project. It provides guidance on how to organise your work so that you achieve your agreed objective. The advice is based on experience gained from supervising more than 50 successful student projects, in both engineering and computer science, during the last 10 years. Projects have varied in duration from 120 hour final year undergraduate projects, through 800 hour MSc projects and up to 5000 hour PhD student research projects. It is my experience that almost all students have the technical background, to a greater or lesser extent, to complete their assigned project but that a disappointingly large number lack the basic organisational framework. Once they are introduced to the rudiments of project management then they are better equipped to control their own progress. They can also concentrate their efforts more effectively on the technical challenges which they will inevitably meet. Of course you can improve your skills solely on the basis of personal experience but you are more likely to achieve your objectives, in a timely manner, with the help of an experienced guide. That is what I have tried to include within this book. It contains advice on how to solve some of the organisational challenges common to all projects so that you can successfully complete your project.

Constituent Order in Functional Grammar-John H. Connolly 1991-01-01

Peasant Violence and Antisemitism in Early Twentieth-Century Eastern Europe-Irina Marin 2018-07-11 This book is a transnational study of rural and anti-Semitic violence around the triple frontier between Austria-Hungary, Romania and Tsarist Russia at the beginning of the twentieth century. It focuses on the devastating Romanian peasant uprising in 1907 and traces the

reverberations of the crisis across the triple frontier, analysing the fears, spectres and knee-jerk reactions it triggered in the borderlands of Austria-Hungary and Tsarist Russia. The uprising came close on the heels of the 1905-1907 social turmoil in Tsarist Russia, and brought into play the major issues that characterized social and political life in the region at the time: rural poverty, the Jewish Question, state modernization, and social upheavals. The book comparatively explores the causes and mechanisms of violence propagation, the function of rumour in the spread of the uprising, land reforms and their legal underpinnings, the policing capabilities of the borderlands around the triple frontier, as well as newspaper coverage and diplomatic reactions.

Radar Target Imaging-Wolfgang-Martin Boerner 2012-12-06 Radar imaging, as understood here, involves target recognition, i.e. the determination of the detailed properties of an object (size, shape, structure and composition, and also location and speed) from radar echoes returned by it. Advanced approaches are required for this, and several of recent interest are discussed in this book. They include mathematical inverse-scattering techniques based on the solution of integral equations; use of the singularity expansion method (SEM), related to the resonance scattering theory (RST), in which the pattern of resonance-frequency location in the complex frequency plane can be employed to characterize a given radar target; and the use of polarization information. Finally, the measurement of radar cross-sections is described.

Optimal Control of a Double Integrator-Arturo Locatelli 2016-07-26 This book provides an introductory yet rigorous treatment of Pontryagin's Maximum Principle and its application to optimal control problems when simple and complex constraints act on state and control variables, the two classes of variable in such problems. The achievements resulting from first-order variational methods are illustrated with reference to a large number of problems that, almost universally, relate to a particular second-order, linear and time-invariant dynamical system, referred to as the double integrator. The book is ideal for students who have some knowledge of the basics of system and control theory and possess the calculus background typically taught in undergraduate curricula in engineering. Optimal control theory, of which the Maximum Principle must be considered a cornerstone, has been very popular

ever since the late 1950s. However, the possibly excessive initial enthusiasm engendered by its perceived capability to solve any kind of problem gave way to its equally unjustified rejection when it came to be considered as a purely abstract concept with no real utility. In recent years it has been recognized that the truth lies somewhere between these two extremes, and optimal control has found its (appropriate yet limited) place within any curriculum in which system and control theory plays a significant role.

Schur Parameters, Factorization and Dilation Problems-Tiberiu Constantinescu 2012-12-06 This book is devoted to the ubiquity of the Schur parameters. A dilation theoretic view leads to a unified perspective on several topics where Schur parameters appear as basic cells. Together with the transmission line, their physical counterpart, they appear in scattering theory, in modeling, prediction and filtering of nonstationary processes, in signal processing, geophysics and system theory. Modeling problems are considered for certain classes of operators, interpolation problems, determinantal formulae, as well as connections with certain classes of graphs where, again, the Schur parameters could play a role. Some general algorithms that explore the transmission line are also presented in this book. As a whole, the text is self-contained and it is addressed to people interested in the previously mentioned topics or connections between them.

Regulatory T Cells in Inflammation-Leonie S. Taams 2006-03-30 Regulatory T-cells are essential components of the immune system, and several different subsets of regulatory T-cells have been described. Considerable regulatory function has been attributed to the CD4+CD25+ T-cell subset. These cells act by suppressing adaptive and possibly innate immune responses thereby maintaining or restoring the balance between immunity and tolerance. The suppressive effects of CD4+CD25+ regulatory T-cells are cell-contact dependent. Recent developments and viewpoints in the field of CD4+CD25+ regulatory T-cells as well as the potential use of regulatory T-cells in immunotherapy of inflammatory diseases are discussed in this volume. By linking data from experimental models with recent findings from the clinic, this book will be of interest to immunologists and other biomedical researchers as well as clinicians interested in the regulation and manipulation of the immune response during inflammatory disease.

Web Reasoning and Rule Systems-Roman

Kontchakov 2014-09-06 This book constitutes the refereed proceedings of the 8th International Conference on Web Reasoning and Rule Systems, RR 2014, held in Athens, Greece in September 2014. The 9 full papers, 9 technical communications and 5 poster presentations presented together with 3 invited talks, 3 doctoral consortial papers were carefully reviewed and selected from 33 submissions. The conference covers a wide range of the following: semantic Web, rule and ontology languages, and related logics, reasoning, querying, searching and optimization, incompleteness, inconsistency and uncertainty, non-monotonic, common sense, and closed-world reasoning for the web, dynamic information, stream reasoning and complex event processing, decision making, planning, and intelligent agents, machine learning, knowledge extraction and information retrieval, data management, data integration and reasoning on the web of data, ontology-based data access, system descriptions, applications and experiences.

X-Ray Optics-Yuri Shvyd'ko 2013-11-11 The use of x rays has moved in the forefront of science and technology in the second half of the 20th century. This progress has been greatly stimulated by the advent of synchrotron x-ray sources in the 1960s. The undulator-based synchrotron radiation sources which have appeared in the last decade of the 20th century gave a new impetus to such development. The brilliance of the x-ray sources has increased by 12 orders of magnitude in 40 years and this trend does not show any signs of stagnation. The future x-ray sources of the 21th century based on free-electron lasers driven by linear accelerators will provide sub-picosecond radiation pulses with by many orders of magnitude higher brilliance and full transverse coherence. The x-ray sources of the newest generation offer a possibility to realize more than ever before the great potential of x-ray optics and, as a consequence, to elaborate new sophisticated instrumentation with unprecedented resolution and eventually to move in new directions of research in x-ray technology, materials science, fundamental physics, life sciences, etc.

Stopping of Heavy Ions-Peter Sigmund 2004-07-09 This book offers a concise presentation of theoretical concepts characterizing and quantifying the slowing down of swift heavy ions in matter. Although the penetration of charged particles through matter has been studied for almost a hundred years, the quantitative theory for swift penetrating ions

heavier than helium has been developed mainly during the past decade and is still progressing rapidly. The book addresses scientists and engineers working at accelerators with an interest in materials analysis and modification, medical diagnostics and therapy, mass spectrometry and radiation damage, as well as atomic and nuclear physicists. Although not a textbook, this monograph represents a unique source of state-of-the-art information that is useful to a university teacher in any course involving the interaction of charged particles with matter.

Life of Mahomet-Edward Gibbon 1881

The Impact of the Economic Crisis on South European Democracies-Leonardo Morlino

2017-03-30 This book questions whether and to what extent a conjunctural phenomenon such as an economic crisis can bring about lasting political consequences. It focuses on the parties and party systems of four South European countries (Portugal, Spain, Italy, and Greece) between 2008-15. The authors also consider how elections, protests, and interests are affected by the crisis in these four democracies, before assessing how to define the impact of the economic crisis on political participation and competition. In this vein the book analyzes relevant aspects of party systems, the notion of neo-populism as a key to understanding new actors of South European policy, and interest intermediation as a factor of weakness in managing the crisis. Finally, the authors summarize the empirical results emerging from the research: the partial reshaping of cleavages as well as the relevance of the establishment vs. anti-establishment cleavage for the emergence and success of neo-populist parties. The book will be of use to students and scholars interested in South European politics, comparative politics, and democracies.

Hepatocellular Carcinoma-Brian I. Carr

2007-11-05 A fully synthesized practical approach to hepatocellular cancer (HCC) patient management by members of the university of Pittsburgh's renowned Liver Cancer Center. Their presentation includes all the latest developments in the diagnosis and treatment of primary liver cancer. A summary chapter details for physicians the diagnostic and therapeutic decision making process for dealing with such problems as incidental tumors in the liver transplant, the role of neo-adjuvant chemotherapy, intra-arterial vs. intravenous therapy, the uses of embolization, and the significance of portal vein thrombus.

Authoritative and highly practical, *Hepatocellular Cancer: Diagnosis and Treatment* captures for physicians the recent exciting changes that in our understanding, diagnostic methods, novel therapeutics, and day-to-day management of hepatocellular cancer.

Galileo's Inquisition Trial Revisited-Jules Speller 2008 This book shows that the known accounts of Galileo's trial leave many important facts unexplained or even clash with them. A most careful reading of the relevant documents and treatises backs an interpretation which has Pope Urban VIII sue Galileo for denying God's omnipotence or His omniscience by admitting the «absolute truth» of Copernicanism. The Pope's opinion results from an argument he fully trusts, together with his belief that Galileo failed to fulfill a condition to which the publication of the *Dialogue* was subjected. That the trial does not end with a conviction for Urban's awful «formal heresy» but merely for «vehement suspicion of heresy», with the «heresy» consisting in the pseudo-heretical belief in a doctrine contrary to the Bible, all this is due to the existence of a Galileo-friendly party inside the Holy Office, led by Cardinal Francesco Barberini and powerful enough to wring a compromise from the Pope.

Diffusion Processes and Related Topics in Biology-Luigi M. Ricciardi 2013-03-13 These notes are based on a one-quarter course given at the Department of Biophysics and Theoretical Biology of the University of Chicago in 1916. The course was directed to graduate students in the Division of Biological Sciences with interests in population biology and neurobiology. Only a slight acquaintance with probability and differential equations is required of the reader. Exercises are interwoven with the text to encourage the reader to play a more active role and thus facilitate his digestion of the material. One aim of these notes is to provide a heuristic approach, using as little mathematics as possible, to certain aspects of the theory of stochastic processes that are being increasingly employed in some of the population biology and neurobiology literature. While the subject may be classical, the novelty here lies in the approach and point of view, particularly in the applications such as the approach to the neuronal firing problem and its related diffusion approximations. It is a pleasure to thank Professors Richard C. Lewontin and Arnold J.F. Siegert for their interest and support, and Mrs. Angell Pasley for her excellent and careful typing. I . PRELIMINARIES 1. Terminology and Examples Consider an experiment specified by:

a) the experiment's outcomes, \sim , forming the space S ; b) certain subsets of S (called events) and by the probabilities of these events.

Computational Psychiatry-Rodrick Wallace 2017-04-20 This book explores mental disorders from a uniquely evolutionary perspective. Although there have been many attempts to mathematically model neural processes and, to some extent, their dysfunction, there is very little literature that models mental function within a sociocultural, socioeconomic, and environmental context. Addressing this gap in the extant literature, this book explores essential aspects of mental disorders, recognizing the ubiquitous role played by the exaptation of crosstalk between cognitive modules at many different scales and levels of organization, the missing heritability of complex diseases, and cultural epigenetics. Further, it introduces readers to valuable control theory tools that permit the exploration of the environmental induction of neurodevelopmental disorders, as well as the study of the synergism between culture, psychopathology and sleep disorders, offering a distinctively unique resource.

Hot Shot-Susan Elizabeth Phillips 1991-06-01 Susannah, a cool socialite; Sam, a charismatic rebel; Yank, an eccentric inventor; and Mitch, a marketing genius, set out to find fame, wealth, and success, taking on corporate America with an ingenious invention

Some Heroes of Travel, or, Chapters from the History of Geographical Discovery and Enterprise-William Adams 2021-01-18 "Some Heroes of Travel or, Chapters from the History of Geographical Discovery and Enterprise" by W. H. Davenport Adams. Published by Good Press. Good Press publishes a wide range of titles that encompasses every genre. From well-known classics & literary fiction and non-fiction to forgotten—or yet undiscovered gems—of world literature, we issue the books that need to be read. Each Good Press edition has been meticulously edited and formatted to boost readability for all e-readers and devices. Our goal is to produce eBooks that are user-friendly and accessible to everyone in a high-quality digital format.

Law and Prediction in the Light of Chaos Research-Paul Weingartner 2014-01-15

Advanced Parallel Processing Technologies-Jiannong Cao 2005-10-21 This book constitutes the refereed proceedings of the 6th International Workshop on Advanced Parallel Processing Technologies, APPT 2005, held in Hong Kong, China in September 2005. The 55 revised full

papers presented were carefully reviewed and selected from over 220 submissions. All current aspects in parallel and distributed computing are addressed ranging from hardware and software issues to algorithmic aspects and advanced applications. The papers are organized in topical sections on architecture, algorithm and theory, system and software, grid computing, networking, and applied technologies.

Methodology of Uniform Contract Law-Maren Heidemann 2007-02-23 This book examines uniform contract law in all relevant areas of legal doctrine and practice, and considers the barriers which exist toward it in modern nation states, namely in the German and English legal systems. The author suggests ways to overcome these obstacles, and develops an autonomous methodology of interpretation of transnational contract principles. The book analyses existing uniform transnational law rules, such as the UNIDROIT Principles of International Commercial Contracts.

Joseph in the Snow ; And, The Clockmaker-Berthold Auerbach 1861

Hydroboration and Organic Synthesis-Ranjit S. Dhillon 2007-05-01 This book offers a systematic compilation of the vast data available to synthetic chemists. It provides easy access to the necessary information required for chemical transformations.

Ferrofluids-Stefan Odenbach 2008-01-11

Magnetic control of the properties and the flow of liquids is a challenging field for basic research and for applications. This book is meant to be both an introduction to, and a state-of-the-art review of, this topic. Written in the form of a set of lectures and tutorial reviews, the book addresses the synthesis and characterization of magnetic fluids, their hydrodynamical description and their rheological properties. The book closes with an account of magnetic drug targeting.

Social Influence and Sustainable Consumption-Elizabeth B Goldsmith 2015-07-11 This forward-looking volume examines the role of social influence--including social media--in creating and fostering sustainable consumer behavior. Using the concepts behind social influence theory as a launching point, it describes humans' need for social networks and identifies the core components of buying, such as consumer goals and the gathering of opinions. From here, chapters examine ways social influence can encourage and support sustainable consumption, from buying green products to recycling packaging materials to supporting

environmentally responsible brands. Real-world examples, critical thinking questions, a breakdown of strategies for influencing behavior, and pertinent references give the book extra dimensions of value. Among the featured topics: Social influence: why it matters. Values, attitudes, opinions, goals, and motivation. What we buy and who we listen to: the science and art of consumption. Decision making and problem solving. Households: productivity and consumption. Sustainably managing resources in the built environment. Between its nuanced understanding of social connections and its up-to-date lens on technology, Social Influence and Sustainable Consumption is must reading for researchers in the fields of consumer psychology, consumer behavior, and consumer sustainability. History of the United States-Elisha Benjamin Andrews 1894

Modelling Metaphysics-Uwe Meixner 2013-05-02 This book models and simulates metaphysics by presenting the metaphysics of a model. The small size of the model makes it possible to treat metaphysical matters with a more than usual systematicity and comprehensiveness. In the mirror of sustained analogy, simulation-metaphysics offers a wealth of insights on the real thing: on the doctrines, the methods, and the epistemology of metaphysics.

Equity Valuation Using Multiples-Andreas Schreiner 2009-04-15 Andreas Schreiner examines the role of multiples in equity valuation. He transforms the standard multiples valuation method into a comprehensive framework for using multiples in valuation practice, which corresponds to economic theory and is consistent with the results of a broad empirical study of European and U.S. equity markets.

Minimally Invasive Spine Surgery-H. Michael Mayer 2006-01-26 Don't miss it! The second, completely revised and expanded edition of the successful surgical manual on minimally invasive spine surgery includes 51 chapters (including more than 20 new chapters) covering all current minimally invasive techniques in spine surgery. A complete survey of all microsurgical and endoscopic techniques with a special focus on semi-invasive injection techniques for diagnostic and therapeutic purposes in low back pain is given. The clear chapter structure with terminology, history, surgical principles, advantages/disadvantages, indications, access principles, complications, and results facilitates navigation through the manual. Topics include the principles of microsurgical and endoscopic

treatment, spinal navigation and computer-assisted surgery, minimally invasive reconstruction, fusion, dynamic stabilization in fractures, degenerative disc disease, spinal stenosis, low back pain and deformities. The didactic presentation of surgical steps makes the reader familiar with all types of new minimally invasive techniques in clinical use or still in ongoing clinical trials such as minimally invasive spine arthroplasty.

Light Scattering Reviews 3-Alexander A.

Kokhanovsky 2008-08-22 This is the 3rd volume of a "Light Scattering Reviews" series devoted to current knowledge of light scattering problems and both experimental and theoretical research techniques related to their solution. This volume covers applications in remote sensing, inverse problems and geophysics, with a particular focus on terrestrial clouds. The influence of clouds on climate is poorly understood. The theoretical aspects of this problem constitute the main emphasis of this work.

Short-Wavelength Diffraction Theory-Vasili M.

Babic 2011-12-08 In the study of short-wave diffraction problems, asymptotic methods - the ray method, the parabolic equation method, and its further development as the "etalon" (model) problem method - play an important role. These are the methods to be treated in this book. The applications of asymptotic methods in the theory of wave phenomena are still far from being exhausted, and we hope that the techniques set forth here will help in solving a number of problems of interest in acoustics, geophysics, the physics of electromagnetic waves, and perhaps in quantum mechanics. In addition, the book may be of use to the mathematician interested in contemporary problems of mathematical physics. Each chapter has been annotated. These notes give a brief history of the problem and cite references dealing with the content of that particular chapter. The main text mentions only those publications that explain a given argument or a specific calculation. In an effort to save work for the reader who is interested in only some of the problems considered in this book, we have included a flow chart indicating the interdependence of chapters and sections.

Optimization and Applications-Milojica Jaćimović 2020-01-08 This book constitutes the refereed proceedings of the 10th International Conference on Optimization and Applications, OPTIMA 2019, held in Petrovac, Montenegro, in September-October 2019. The 35 revised full papers presented were carefully reviewed and selected from 117 submissions. The papers cover such

topics as optimization, operations research, optimal control, game theory, and their numerous applications in practical problems of operations research, data analysis, and software development.

The Embryology of the Common Marmoset-I.R. Phillips 2012-12-06 The primates represent a diverse group with the phylogenetic relationships of the various species reflected in their early embryonic development. The members of the Tupaiidae, Lemuridae and Lorisidae show great similarities to the lower mammals and even birds. The Tarsiidae represent an intermediate step and the Platyrrhini and Catarrhini exhibit the greatest similarities to man. During the period of embryogenesis, the dimensions of an embryo are insufficient guide to its age and much more reliable information can be derived from a study of its external form and internal structure. Examination of embryological specimens from a variety of simian species dates back to the early 1900's but much of this material was collected in a haphazard way from animals shot in the wild. Heuser and Streeter (1941) depicted a series of embryos of the rhesus monkey (*Macaca mulatta*) and correlated their gestational age with external form and size. Streeter (1951) arranged human embryos, between $24. \pm 1$ and $47. \pm 1$ days of post-ovulation age, into age groups or developmental horizons based on their external form and internal structure. Each horizon was two days apart and numbered XI to XXIII. The transition from embryo to fetus occurred at the end of horizon XXIII and was arbitrarily termed as the point where bone marrow invaded the cartilaginous precursor in the humerus. The earlier stages I-X have been termed subsequently, (Heuser and Corner, 1957; O'Rahilly, 1973).

7 to 12-Anna Katharine Green 1898

West Ways-Matthew Licht 2011 Rita McBride is a prominent American artist based in Dusseldorf, whose sculptures and installations deal with fiction and public space and often provide a set for performances and lectures. She has edited a series of books for which she invited other artists and writers to write short stories involving constraints and a relationship to the art world. Each of the books corresponds to a sub literary genre (crime novels, SF, soft-eroticism, and so on). Westways is the fifth in Rita McBride's continuing 'Ways' series of collaborative novels, this time with writer and climber Matthew Licht. We follow Mae West from her childhood in 19th century Brooklyn through her adventures with W.C. Fields at the 1931 Oktoberfest to a Sapphic

encounter with Leni Riefenstahl on safari in the 1970s, picking up a fighter pilot, Salvador Dali, and Billy Wilder for the ride. Published to coincide with the completion of McBride's 52-metre-high Mae West public commission at Munich's Effnerplatz; the artist's Mae West is actress, inflatable vest, sculpture, exhibition, and now finally a book. The publication is part of the series of artists' projects edited by Christoph Keller.

Recidivism in the Caribbean-Dacia L. Leslie
2019-04-26 This book provides a detailed and practical exploration of criminal recidivism and social reintegration in Jamaica. It uses various methods to seek the authentic voices of inmates, ex-prisoners, deported migrants and practitioners, drawing on an original study to examine factors that might help ex-prisoners more successfully transition from a prison environment to life within the community. Leslie also raises important questions about the Jamaican state's capacity to meet the needs of inmates, particularly as a large number of its citizens are subject to forced repatriation to their homeland by overseas jurisdictions due to their offending. Recidivism in the Caribbean provides a unique insight into institutional and community life in a post-colonial society, whilst linking practices theories of offender management. It will particularly appeal to criminologists and sociologists interested in tertiary crime prevention but also those interested in correctional policy and practice, punishment and deviance.

A Guide to Numerical Modelling in Systems Biology-Peter Deuflhard 2015-07-06 This book is intended for students of computational systems biology with only a limited background in

mathematics. Typical books on systems biology merely mention algorithmic approaches, but without offering a deeper understanding. On the other hand, mathematical books are typically unreadable for computational biologists. The authors of the present book have worked hard to fill this gap. The result is not a book on systems biology, but on computational methods in systems biology. This book originated from courses taught by the authors at Freie Universität Berlin. The guiding idea of the courses was to convey those mathematical insights that are indispensable for systems biology, teaching the necessary mathematical prerequisites by means of many illustrative examples and without any theorems. The three chapters cover the mathematical modelling of biochemical and physiological processes, numerical simulation of the dynamics of biological networks and identification of model parameters by means of comparisons with real data. Throughout the text, the strengths and weaknesses of numerical algorithms with respect to various systems biological issues are discussed. Web addresses for downloading the corresponding software are also included.

Mechanics in Material Space-Reinhold Kienzler
2012-12-06 A novel and unified presentation of the elements of mechanics in material space or configurational mechanics, with applications to fracture and defect mechanics. The level is kept accessible for any engineer, scientist or graduate possessing some knowledge of calculus and partial differential equations, and working in the various areas where rational use of materials is essential.