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Introduces Novel
Applications for
Solving Neutron
Transport
Equations While
deemed
nonessential in the
past, fractional
calculus is now
gaining momentum
in the science and
engineering
community. Various
disciplines have
discovered that
realistic models of
physical
phenomenon can be
achieved with
fractional calculus
and are using them
in numerous ways.
Since fractional
calculus represents
a reactor more
closely than
classical integer

order calculus,
Fractional Calculus
with Applications
for Nuclear Reactor
Dynamics focuses
on the application
of fractional
calculus to describe
the physical
behavior of nuclear
reactors. It applies
fractional calculus
to incorporate the
mathematical
methods used to
analyze the
diffusion theory
model of neutron
transport and
explains the role of
neutron transport
in reactor theory.
The author
discusses fractional
calculus and the
numerical solution
for fractional
neutron point
kinetic equation
(FNPKE),
introduces the
technique for
efficient and
accurate numerical

computation for FNPKE with different values of reactivity, and analyzes the fractional neutron point kinetic (FNPKE) model for the dynamic behavior of neutron motion. The book begins with an overview of nuclear reactors, explains how nuclear energy is extracted from reactors, and explores the behavior of neutron density using reactivity functions. It also demonstrates the applicability of the Haar wavelet method and introduces the neutron diffusion concept to aid readers in understanding the complex behavior of average neutron motion. This text:

Applies the effective analytical and numerical methods to obtain the solution for the NDE Determines the numerical solution for one-group delayed neutron FNPKE by the explicit finite difference method Provides the numerical solution for classical as well as fractional neutron point kinetic equations Proposes the Haar wavelet operational method (HWOM) to obtain the numerical approximate solution of the neutron point kinetic equation, and more Fractional Calculus with Applications for Nuclear Reactor Dynamics thoroughly and systematically

presents the concepts of fractional calculus and emphasizes the relevance of its application to the nuclear reactor. This book addresses the topic of fractional-order modeling of nuclear reactors. Approaching neutron transport in the reactor core as anomalous diffusion, specifically subdiffusion, it starts with the development of fractional-order neutron telegraph equations. Using a systematic approach, the book then examines the development and analysis of various fractional-order models representing nuclear reactor dynamics,

ultimately leading to the fractional-order linear and nonlinear control-oriented models. The book utilizes the mathematical tool of fractional calculus, the calculus of derivatives and integrals with arbitrary non-integer orders (real or complex), which has recently been found to provide a more compact and realistic representation to the dynamics of diverse physical systems. Including extensive simulation results and discussing important issues related to the fractional-order modeling of nuclear reactors, the book offers a valuable resource for students and

researchers working in the areas of fractional-order modeling and control and nuclear reactor modeling. Nuclear Thermal-Hydraulic Systems provides a comprehensive approach to nuclear reactor thermal-hydraulics, reflecting the latest technologies, reactor designs, and safety considerations. The text makes extensive use of color images, internet links, computer graphics, and other innovative techniques to explore nuclear power plant design and operation. Key fluid mechanics, heat transfer, and nuclear engineering concepts are carefully explained,

and supported with worked examples, tables, and graphics. Intended for use in one or two semester courses, the text is suitable for both undergraduate and graduate students. A complete Solutions Manual is available for professors adopting the text. NUCLEAR ENGINEERING FUNDAMENTALS is the most modern, up-to-date, and reader friendly nuclear engineering textbook on the market today. It provides a thoroughly modern alternative to classical nuclear engineering textbooks that have not been updated over the last 20 years. Printed in full color, it conveys a sense of awe and

wonder to anyone interested in the field of nuclear energy. It discusses nuclear reactor design, nuclear fuel cycles, reactor thermal-hydraulics, reactor operation, reactor safety, radiation detection and protection, and the interaction of radiation with matter. It presents an in-depth introduction to the science of nuclear power, nuclear energy production, the nuclear chain reaction, nuclear cross sections, radioactivity, and radiation transport. All major types of reactors are introduced and discussed, and the role of internet tools in their analysis and design is explored. Reactor safety and reactor

containment systems are explored as well. To convey the evolution of nuclear science and engineering, historical figures and their contributions to evolution of the nuclear power industry are explored. Numerous examples are provided throughout the text, and are brought to life through life-like portraits, photographs, and colorful illustrations. The text follows a well-structured pedagogical approach, and provides a wide range of student learning features not available in other textbooks including useful

equations, numerous worked examples, and lists of key web resources. As a bonus, a complete Solutions Manual and .PDF slides of all figures are available to qualified instructors who adopt the text. More than any other fundamentals book in a generation, it is student-friendly, and truly impressive in its design and its scope. It can be used for a one semester, a two semester, or a three semester course in the fundamentals of nuclear power. It can also serve as a great reference book for practicing nuclear scientists and engineers. To date, it has

achieved the highest overall satisfaction of any mainstream nuclear engineering textbook available on the market today.

INTRODUCTION TO NUCLEAR REACTOR PHYSICS

is the most comprehensive, modern and readable textbook for this course/module. It explains reactors, fuel cycles, radioisotopes, radioactive materials, design, and operation. Chain reaction and fission reactor concepts are presented, plus advanced coverage including neutron diffusion theory. The diffusion equation, Fisk's Law, and steady state/time-

dependent reactor behavior.

Numerical and analytical solutions are also covered.

The text has full color illustrations throughout, and a wide range of student learning features. Since the publication of the bestselling first edition, there have been numerous advances in the field of nuclear science. In medicine, accelerator based teletherapy and electron-beam therapy have become standard. New demands in national security have stimulated major advances in nuclear instrumentation. An ideal introduction to the fundamentals of nuclear science and engineering,

this book presents the basic nuclear science needed to understand and quantify an extensive range of nuclear phenomena. New to the Second Edition— A chapter on radiation detection by Douglas McGregor. Up-to-date coverage of radiation hazards, reactor designs, and medical applications. Flexible organization of material that allows for quick reference. This edition also takes an in-depth look at particle accelerators, nuclear fusion reactions and devices, and nuclear technology in medical diagnostics and treatment. In

addition, the author discusses applications such as the direct conversion of nuclear energy into electricity. The breadth of coverage is unparalleled, ranging from the theory and design characteristics of nuclear reactors to the identification of biological risks associated with ionizing radiation. All topics are supplemented with extensive nuclear data compilations to perform a wealth of calculations. Providing extensive coverage of physics, nuclear science, and nuclear technology of all types, this up-to-date second edition of *Fundamentals of Nuclear Science and Engineering* is a key reference for

any physicists or engineer. Using archival, interview, and polling data, Katherine Boothe compares the policy histories of Canada, the United Kingdom, and Australia in order to understand why Canada followed a different path on pharmaceutical insurance. A highly practical reference for health physicists and other professionals, addressing practical problems in radiation protection, this new edition has been completely revised, updated and supplemented by such new sections as log-normal distribution and digital radiography, as well as new chapters on internal radiation dose and

the environmental transport of radionuclides. Designed for readers with limited as well as basic science backgrounds, the handbook presents clear, thorough and up-to-date explanations of the basic physics necessary. It provides an overview of the major discoveries in radiation physics, plus extensive discussion of radioactivity, including sources and materials, as well as calculational methods for radiation exposure, comprehensive appendices and more than 400 figures. The text draws substantially on current resource data available,

which is cross-referenced to standard compendiums, providing decay schemes and emission energies for approximately 100 of the most common radionuclides encountered by practitioners. Excerpts from the Chart of the Nuclides, activation cross sections, fission yields, fission-product chains, photon attenuation coefficients, and nuclear masses are also provided. Throughout, the author emphasizes applied concepts and carefully illustrates all topics using real-world examples as well as exercises. A much-needed working resource for health

physicists and other radiation protection professionals. Turning a critical eye to the health care system in Nova Scotia, Katherine Fierlbeck outlines the frameworks structuring provincial health care, while providing a detailed assessment of Nova Scotia's health financing, physical infrastructure, and service provision. This text provides a collection of the original ideas of many of the leading engineers, scientists, and fusion energy specialists. The specific intent of the collection is to explore the possibility of using fusion energy in advanced and future propulsion systems so that

suitable space transportation can be developed, enhanced, and perfected. This text explores the interrelationship between social programmes, federal-provincial relations, the role of the bureaucracy in devising and legitimizing policy and the nature of political power in the modern Canadian state. Nuclear Engineering Mathematical Modeling and Simulation presents the mathematical modeling of neutron diffusion and transport. Aimed at students and early career engineers, this highly practical and visual resource guides the reader through computer

simulations using the Monte Carlo Method which can be applied to a variety of applications, including power generation, criticality assemblies, nuclear detection systems, and nuclear medicine to name a few. The book covers optimization in both the traditional deterministic framework of variational methods and the stochastic framework of Monte Carlo methods. Specific sections cover the fundamentals of nuclear physics, computer codes used for neutron and photon radiation transport simulations, applications of analyses and

simulations, optimization techniques for both fixed-source and multiplying systems, and various simulations in the medical area where radioisotopes are used in cancer treatment. Provides a highly visual and practical reference that includes mathematical modeling, formulations, models and methods throughout. Includes all current major computer codes, such as ANISN, MCNP and MATLAB for user coding and analysis. Guides the reader through simulations for the design optimization of both present-day and future nuclear systems. This book focuses on core

design and methods for design and analysis. It is based on advances made in nuclear power utilization and computational methods over the past 40 years, covering core design of boiling water reactors and pressurized water reactors, as well as fast reactors and high-temperature gas-cooled reactors. The objectives of this book are to help graduate and advanced undergraduate students to understand core design and analysis, and to serve as a background reference for engineers actively working in light water reactors. Methodologies for core design and analysis, together

with physical descriptions, are emphasized. The book also covers coupled thermal hydraulic core calculations, plant dynamics, and safety analysis, allowing readers to understand core design in relation to plant control and safety. First signed in 1886, the Berne Convention for the Protection of Literary and Artistic Works is still the cornerstone of international copyright law. Set against the backdrop of Canada's development from a British colony into a middle power, this book reveals the deep roots of conflict in the international copyright system and argues that

Canada's signing of the convention can be viewed in the context of a former British colony's efforts to find a place on the world stage. In this groundbreaking book, Sara Bannerman examines Canada's struggle for copyright sovereignty and explores some of the problems rooted in imperial and international copyright that affect Canadians to this day. Providing a multicultural analysis of the impact of globalized Western media, this guide specifically deals with sex, violence, and drugs. The text proposes a framework for understanding the political, social and economic problems

that face media policy-makers in an age of globalization. The Entec Directory of Environmental Technology, European Edition is the only comprehensive reference to cover producers and users of goods and services in these areas of environmental concern: Water Air Solid waste Hazardous waste Noise vibration Energy Information, including up-to-date names and addresses, is featured for more than 20,000 companies from the 20 countries of Western Europe. Thousands of products, processes, and services have been categorized under 865 specific

products and service groups. Never before has such a massive reference to European environmental goods and services been compiled. The book will be invaluable to anyone in government, industry, science and education, or the professional arena who would like to utilize European environmental technology. Poverty Reform in Canada addresses a central theoretical concern in the contemporary study of public policy - the dichotomy between society-centred and state-centred perspectives on the modern state. Haddow makes the

case that poverty reform during the 1960s and 1970s can be explained by combining insights from these seemingly mutually exclusive theoretical perspectives, arguing that the societal perspective explains the important preconditions of policy making, such as the impact of policy legacies, ideological beliefs, and accumulation strategies that reflect the historic weakness of working-class politics, while the statist perspective accounts for the impact of federalism and evolving structures of cabinet decision making. Problems and Solutions in Structural Geology

and Tectonics, Volume 5, in the series Developments in Structural Geology and Tectonics, presents students, researchers and practitioners with an all-new set of problems and solutions that structural geologists and tectonics researchers commonly face. Topics covered include ductile deformation (such as strain analyses), brittle deformation (such as rock fracturing), brittle-ductile deformation, collisional and shortening tectonics, thrust-related exercises, rift and extensional tectonics, strike slip tectonics, and cross-section balancing

exercises. The book provides a how-to guide for students of structural geology and geologists working in the oil, gas and mining industries. Provides practical solutions to industry-related issues, such as well bore stability. Allows for self-study and includes background information and explanation of research and industry jargon. Includes full color diagrams to explain 3D issues. Comprehensive Energy Systems provides a unified source of information covering the entire spectrum of energy, one of the most significant issues humanity has to face. This

comprehensive book describes traditional and novel energy systems, from single generation to multi-generation, also covering theory and applications. In addition, it also presents high-level coverage on energy policies, strategies, environmental impacts and sustainable development. No other published work covers such breadth of topics in similar depth. High-level sections include Energy Fundamentals, Energy Materials, Energy Production, Energy Conversion, and Energy Management. Offers the most comprehensive resource available on the topic of

energy systems. Presents an authoritative resource authored and edited by leading experts in the field. Consolidates information currently scattered in publications from different research fields (engineering as well as physics, chemistry, environmental sciences and economics), thus ensuring a common standard and language. This international report from the Health Behaviour in School-aged Children (HBSC) World Health Organization collaborative cross-national study [...] presents the key findings on patterns of health among young people in 41

countries and regions across Europe and North America. The document presents a status report on health, health-related behaviour and the social contexts of young people's health in 2005/2006 and provides the latest evidence from a unique cross-national study on the well-being of young people in industrialized nations. [...] In addition to presenting key statistics on young people's health, this report has a special focus on health inequalities. It presents data on gender, age and geographic and socioeconomic dimensions of health differentials. The aim of the

report is to highlight where inequalities exist in aspects of young people's health and well-being in order to inform and influence policy and practice and to contribute to health improvement for all young people. [Ed.] Provides an overview of the spectrum of concerns within the field of child care in Canada. The book pays particular attention to developments in the field from the mid-1980s to the mid-1990s. Fundamentals of Nuclear Science and Engineering, Third Edition, presents the nuclear science concepts needed to understand and quantify the whole range of nuclear

phenomena. Noted for its accessible level and approach, the Third Edition of this long-time bestselling textbook provides overviews of nuclear physics, nuclear power, medicine, propulsion, and radiation detection. Its flexible organization allows for use with Nuclear Engineering majors and those in other disciplines. The Third Edition features updated coverage of the newest nuclear reactor designs, fusion reactors, radiation health risks, and expanded discussion of basic reactor physics with added examples. A complete Solutions Manual and figure slides for classroom

projection are available for instructors adopting the text. Naylor's particular concern is with the nature and extent of the medical profession's opposition at both the provincial and federal levels. He details various developments in medical politics and policies, including the dispute over state health insurance plans in British Columbia during the depression, the national health insurance program drafted by the King government, the doctors' strike in Saskatchewan, and the development and eventual governmental rejections of prepayment plans sponsored by

organized medicine. The author concludes that physicians regarded medical insurance schemes over which they had little administrative control, or where coverage was not limited to the indigent or to those earning below a modest wage, as threats to professional incomes and autonomy. His analysis of the evolution of the professional perspectives, policies, and pressure group activities suggests that physicians are as likely to act in their own economic and social interest as any other group, and that they oppose legislation that would threaten these interests

while supporting laws that strengthen them. Since the Medical Care Act became law, Ottawa has moved to strengthen health care plans in the provinces, and once again the medical profession has resisted. The final chapter in Naylor's book puts these current conflicts in historical perspective by linking them to their political precedents.

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