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CHACE SAVANAH

Farm Electrification Springer Science & Business Media
 Master this technique with everything from felting basics to fabulous clothing to décor projects. There's something magical about felting knits: You start with a piece of fabric that looks and feels a certain way and, by exposing it to water and agitation, finish with one that looks and feels completely different. This fascinating transformation is what led author Leigh Radford to begin felting years ago, and has kept her intrigued by the process ever since. Now, in *AlterKnits Felt*, Radford pushes the boundaries of traditional felting, as she did with traditional knitting in her earlier book, *AlterKnits*. Through 30 colorful, vibrant projects, she shows readers how to knit and then felt their own handiwork, as well as how to create gorgeous felted objects from recycled knits and unspun fiber. An introductory chapter on felting basics explains everything you need to know to make the fabulous clothes, accessories, and home decor that follow. The projects range from a quick and easy circle coin purse, to a shibori bag, to a reverse-appliqué rug, each unusual in its own way, distinguished by a special surface texture, an innovative mix of techniques, or a quirky combination of yarns. *AlterKnits Felt* provides every crafter with the tools to explore—and expand—the art of felting.

Road Vehicle Automation 5 Farm Electrification
 Reborn
 The Pacers and the Return of Pro Basketball to Indianapolis
 The computational education of biologists is changing to prepare students for facing the complex datasets of today's life science research. In this concise textbook, the authors' fresh pedagogical approaches lead biology students from first principles towards computational thinking. A team of renowned bioinformaticians take innovative routes to introduce computational ideas in the context of real biological problems. Intuitive explanations promote deep understanding, using little mathematical formalism. Self-contained chapters show how computational procedures are developed and applied to central topics in bioinformatics and genomics, such as the genetic basis of disease, genome evolution or the tree of life concept. Using bioinformatic resources requires a basic understanding of what bioinformatics is and what it can do. Rather than just presenting tools, the authors - each a leading scientist - engage the students' problem-solving skills, preparing them to meet the computational challenges of their life science careers.

Nuclear Reactions Cambridge University Press
 This book summarizes the considerable progress recently achieved in the understanding of nucleon and nuclear structure by using high energy electrons as a probe. A collection of papers discusses in detail the new frontiers of this field. Experimental

and theoretical articles cover topics such as the structure of the nucleon, nucleon distributions, many-body correlations, non-nucleonic degrees of freedom and few-body systems. This book is an up-to-date introduction to the research planned with continuous beam electron accelerators. Contents:
 The Nucleon and its Resonances: An Introduction to the Quark Model for Baryons (N Isgur)
 Electron-Nucleus Scattering in the Δ -Resonance Region (J H Koch)
 Inclusive Electron-Nucleus Scattering and the Structure of Nucleons (P J Mulders)
 Large Acceptance Detectors for Electromagnetic Nuclear Physics (V D Burkert & B A Mecking)
 Few-Body Systems: Few-Nucleon Systems (J L Friar)
 Study of Subnuclear Degrees of Freedom in Electromagnetic Break-Up of the Deuteron (H Arenhövel)
 Many-Body Theory of Electron-Nucleus Scattering: Light Nuclei (J Carlson et al.)
 Relativistic Effects and Relativistic Methods (F Gross)
 Electrodissintegration of Few-Nucleon Systems (J M Laget)
 Few-Nucleon Form Factors (B Frois & S Platchkov)
 Many-Body Systems: Nucleon Distributions and the Nuclear Many-Body Problem (B Frois et al.)
 High Resolution Inelastic Electron Scattering and Nuclear Structure (H P Blok & J H Heisenberg)
 Nuclear Response Functions at Large Energy and Momentum Transfer (W Bertozzi et al.)
 Many-Body Theory of Electron-Nucleus Scattering: Nuclear Matter (O Benhar et al.)
 Quasi-Elastic Electron Scattering: Single-Particle Motion and Correlations in Nuclei (G van der Steerhoven & P K A de Witt Huberts)
 Scaling in Electron-Nucleus Scattering (I Sick)
 Polarization Degrees of Freedom in Electron Scattering from Nuclei (T W Donnelly)
 Electroproduction of Strangeness (C B Dover & D J Millener)
 Short Range Correlations in Nuclei as Seen in Hard Nuclear Reactions and Light-Cone Dynamics (L Frankfurt & M Strikman)
 QCD and Nuclei: The Impact of QCD on High-Energy Reactions with Hadrons and Nuclei (M Chemtob)
 New Perspectives on Exchange Currents (D O Riska)
 Parton Structure of Nuclei as Seen by Lepton Probes: From $x \sim 10^{-3}$ to $x = 1$ and Beyond (M Strikman & L Frankfurt)
 Readership: Nuclear physicists and applied physicists. Keywords: Electron Scattering; Few-Body Systems; Form Factors; Meson Exchange Currents; Polarization; Nucleon form Factors; Many-Body Systems; Relativistic Effects; Quasi-Elastic Scattering; QCD
The Quantum Mechanical Few-Body Problem Springer
 "The rise and fall of kings and nations!"--Cover.

EPA-430/1 Steel Gear Press
 This is the fifth volume of a sub series on Road Vehicle Automation published within the Lecture Notes in Mobility. Like in previous editions, scholars, engineers and analysts from all around the world have contributed chapters covering human factors, ethical, legal, energy and technology aspects related to automated vehicles, as well as transportation infrastructure and public planning. The book is based on the Automated Vehicles Symposium which was hosted by the Transportation Research Board (TRB) and the Association for Unmanned Vehicle Systems

International (AUVSI) in San Francisco, California (USA) in July 2017.

Springer Science & Business Media
 This unique volume reviews more than fifty years of theoretical and experimental developments of the concept that properties of atomic nuclei up to a great extent are defined by the pair correlations of nuclear constituents — protons and neutrons. Such correlations in condensed matter are responsible for quantum phenomena on a macroscopic level — superfluidity and superconductivity. After introducing Bardeen-Cooper-Schrieffer (BCS) theory of superconductivity of metals, it became clear that atomic nuclei have properties of superfluid drops, and practically all features of nuclei strongly depend on the pair correlations. Presenting a comprehensive overview of the progress of nuclear science, the contributions from leading physicists around the world, cover the whole spectrum of studies in nuclear physics and physics of other small systems. With the most updated information written in an accessible way, the volume will serve as an irreplaceable source of references covering many years of development and insight into several new problems at the frontiers of science. It will be useful not only for physicists working in nuclear and condensed matter physics, astrophysicists, chemists and historians of science, but will also help students understand the current status and perspectives for the future. Contents: BCS Pairing (and Beyond) in Nuclear Structure and Dynamics
 The Nuclear Pairing Interaction in Finite Nuclei and in Neutron Stars
 Single- and Multiple-Pair Tunneling in Nuclear Reactions (Experiment and Theory)
 Pairing in Nuclei in an External Time-Reversal Violating Field: Rapidly Rotating Nuclei
 The Nuclear BCS (Pairing) Paradigm in Other Many-Body Systems
 Readership: Nuclear and theoretical physicists, chemists and astrophysicists. Keywords: Nuclear Structure; Transfer Reactions; Nuclear Superfluidity; Nuclear Matter; Neutron Star Crust; Pairing in Fermi Systems
 Key Features: Currently there are no competing titles on the market, the books of this breadth and depth were not published before
 The contributors are experts from leading institutions of the world

Rotating Relativistic Stars Springer Science & Business Media
 From their haunts in the shadowy corner of a bar, front and center at a convenience store, or reigning over a massive mall installation bursting with light, sound, and action, arcade games have been thrilling and addicting quarter-bearers of all ages ever since Pong first lit up its paddles. Whether you wanted a few minutes' quick-twitch exhilaration or the taste of three-initial immortality that came with topping the high score screen, you could get it from the diverse range of space shooters, dot-eating extravaganzas, quirky beat-'em-ups, and more that have helped define pop culture for more than four decades. In *Attract Mode: The Rise and Fall of Coin-Op Arcade Games*, author Jamie Lendino celebrates both the biggest blockbusters (*Pac-Man*, *Star Wars*):

The Arcade Game) and the forgotten gems (Phoenix, Star Castle) of the Golden Age of coin-op gaming, and pulls back the curtain on the personalities and the groundbreaking technologies that brought them to glitzy, color-drenched life in the U.S., Japan, and all over the world. You'll start your journey exploring the electromechanical attractions and pinball games of the early 20th century. Next, you'll meet the earliest innovators, who used college computers and untested electronics to outline the possibilities of the emerging form, and discover the surprising history behind the towering megahits from Nintendo, Sega, and others that still inform gaming today. Then you'll witness the devastating crash that almost ended it all—and the rebirth no one expected. Whether you prefer the white-knuckle gameplay of Robotron: 2084, the barrel-jumping whimsy of Donkey Kong, or the stunning graphics and animation of Dragon's Lair, *Attract Mode* will transport you back to the heyday of arcade games and let you relive—or experience for the first time—the unique magic that transformed entertainment forever.

[Single Cell Methods](#) Penguin

A nightmarish series of events sweeps LAPD's Sergeant Shane Scully and his wife (and boss), Alexa, into the vortex of an enormous, jurisdictional firestorm. First, a sheriff's deputy, a friend of Shane's, is gunned down while serving a routine search warrant. His fellow deputies blame the incident on the Bureau of Alcohol, Tobacco and Firearms, whom they angrily accuse of having failed to warn them that the suspect had a huge arsenal of illegal weapons in his house. Soon thereafter, a member of the ATF Situation Response Team is shot to death, followed by the sniper murder of the Sheriff's Special Enforcement Bureau. At the request of the Mayor, LAPD, as an uninvolved and unbiased agency, assigns Shane Scully to investigate. He is given an impossible deadline to find a solution before these two elite and deadly SWAT Teams kill each other off amid a hurricane of horrible publicity. Shane pursues his investigation in a direction that neither his chief nor his wife agrees with, and succeeds in putting himself, his loved ones, and his career in terrible jeopardy before he finally discovers the shocking and deadly truth.

[The Micro-hydro Pelton Turbine Manual](#) Elsevier

Computation is essential to our modern understanding of nuclear systems. Although simple analytical models might guide our intuition, the complexity of the nuclear many-body problem and the ever-increasing precision of experimental results require large-scale numerical studies for a quantitative understanding. Despite their importance, many nuclear physics computations remain something of a black art. A practicing nuclear physicist might be familiar with one or another type of computation, but there is no way to systematically acquire broad experience. Although computational methods and results are often presented in the literature, it is often difficult to obtain the working codes. More often than not, particular numerical expertise resides in one or a few individuals, who must be contacted informally to generate results; this option becomes unavailable when these individuals leave the field. And while the teaching of modern nuclear physics can benefit enormously from realistic computer simulations, there has been no source for much of the important material. The present volume, the second of two, is an experiment aimed at addressing some of these problems. We have asked recognized experts in various aspects of computational nuclear physics to codify their expertise in individual chapters. Each chapter takes the form of a brief description of the relevant physics (with appropriate references to the literature), followed by a discussion of the numerical methods used and their embodiment in a FORTRAN code. The chapters also contain sample input and test runs, as well as suggestions for further exploration.

[Design, Manufacture and Installation for Small-scale Hydro-power](#) Springer Nature

Exponentially increasing information on biological organisms coupled with increasing computational power in the past decade have broadened the perspective of fundamental biological research, bringing about considerable promise and unprecedented potential for practical applications in biotechnology. As one emergent discipline, synthetic biology aims to design and engineer novel biologically-based parts, devices, and systems, in addition to redesigning existing, natural biological systems. Although previously relegated to demonstration studies, more recent research in synthetic biology has focused on the rational engineering of industrial microorganisms with the potential to address many of society's critical challenges. Within the realm of industrial microbiology, progress in the field of synthetic biology has enabled the development of, for example, new biosynthetic pathways for the production of renewable fuels and chemicals, programmable logic controls to regulate and optimize cell function, and robust microbes for the destruction of harmful environmental contaminants. Some of the exciting examples included producing anti-malarial drug, anti-cancer

taxol precursor and various biofuel molecules in *E. coli* and yeast. In addition, these researches have also greatly enhanced our understanding of the cellular machinery and its regulation in some of the industry important microbes, laying an important foundation for further design and engineering of biological function for even greater application. For these reasons, we present here a collection of articles from the leading edge of the field of synthetic biology, with a specific focus on the development in industrial microorganisms. It is the intent of this collection to reach a wide audience whose interests and expertise spans from development of novel synthetic biology methodologies and theories (both experimental and computational) to practical applications seeking to address issues facing the world today.

This is 4-H Frontiers E-books

Few-body physics covers a rich and wide variety of phenomena, ranging from the very lowest energy scales of atomic and molecular physics to high-energy particle physics. The papers contained in the present volume provide an aperçu of recent progress in the field from both the theoretical and experimental perspectives and are based on work presented at the "22nd International Conference on Few-Body Problems in Physics". This book is geared towards academics and graduate students involved in the study of systems which present few-body characteristics and those interested in the related mathematical and computational techniques.

[The J-Matrix Method](#) Edward Elgar Publishing

The fourth edition includes new developments, in particular a new section on the double beta decay including a discussion of the possibility of a neutrinoless decay and its implications for the standard model.

[A Shane Scully Novel](#) St. Martin's Press

Expert Oracle RAC Performance Diagnostics and Tuning provides comprehensive coverage of the features, technology and principles for testing and tuning RAC databases. The book takes a deep look at optimizing RAC databases by following a methodical approach based on scientific analysis rather than using a speculative approach, twisting and turning knobs and gambling on the system. The book starts with the basic concepts of tuning methodology, capacity planning, and architecture. Author Murali Vallath then dissects the various tiers of the testing implementation, including the operating system, the network, the application, the storage, the instance, the database, and the grid infrastructure. He also introduces tools for performance optimization and thoroughly covers each aspect of the tuning process, using many real-world examples, analyses, and solutions from the field that provide you with a solid, practical, and replicable approach to tuning a RAC environment. The book concludes with troubleshooting guidance and quick reference of all the scripts used in the book. Expert Oracle RAC Performance Diagnostics and Tuning covers scenarios and details never discussed before in any other performance tuning books. If you have a RAC database, this book is a requirement. Get your copy today. Takes you through optimizing the various tiers of the RAC environment. Provides real life case studies, analysis and solutions from the field. Maps a methodical approach to testing, tuning and diagnosing the cluster

[The CBM Physics Book](#) Springer Science & Business Media

Start small for big results with this inspiring guide to lifelong wellness—from popular health blogger and author of *Operation Beautiful*. In *Healthy Tipping Point*, Caitlin Boyle shares the down-to-earth philosophy and authoritative advice that has made her websites so popular. Believing that reaching a tipping point means much more than tipping the scales, Boyle helps readers find their personal ideal balance in food, fitness, love, and life, in a breakthrough program organized around three shifts: • **Get Real:** Challenge negative-thought patterns to create space for success • **Eat Clean:** Ditch conventional "diet" advice and follow a simple eating plan tailored to keep energy high, while helping the environment—including forty-five delicious vegetarian recipes for foodies on the go • **Embrace Strength:** Commit to a high-powered fitness program designed to help one learn to love exercise and build a strong, lean body—with targeted guidance for novice runners, bikers, swimmers, and others Featuring twenty inspiring success stories and photos of people who have transformed their lives, the book proves that a healthy body is absolutely attainable. Healthy living and a healthy self-image go hand in hand. For anyone who struggles to get fit, *Healthy Tipping Point* provides the drive to thrive.

World Scientific

This exhaustive survey is the result of a four year effort by many leading researchers in the field to produce both a readable introduction and a yardstick for the many upcoming experiments using heavy ion collisions to examine the properties of nuclear matter. The book falls naturally into five large parts, first examining the bulk properties of strongly interacting matter,

including its equation of state and phase structure. Part II discusses elementary hadronic excitations of nuclear matter, Part III addresses the concepts and models regarding the space-time dynamics of nuclear collision experiments, Part IV collects the observables from past and current high-energy heavy-ion facilities in the context of the theoretical predictions specific to compressed baryonic matter. Part V finally gives a brief description of the experimental concepts. The book explicitly addresses everyone working or planning to enter the field of high-energy nuclear physics.

Synthetic biology applications in industrial microbiology Halfcourt Press, LLC

Provides a detailed scope and sequence for teaching writing at Grade 5. The daily lessons revolve around clearly defined teaching objectives and build in complexity as students move through the program. (vol. 2 of 2)

[UNIX and Linux System Administration Handbook](#) World Scientific Where flow is limited but high heads of water are available the Pelton wheel is one of the most useful turbines. It can be fabricated in small engineering shops with basic facilities. Jeremy Thake explains how to design, make and use them.

Attract Mode: The Rise and Fall of Coin-Op Arcade Games Springer Science & Business Media

Few-body systems are both technically relatively simple and physically non trivial enough to test theories quantitatively. For instance the He-atom played historically an important role in verifying predictions of QED. A similar role is contributed nowadays to the three-nucleon system as a testing ground for nuclear dynamics and maybe in the near future to few-quark systems. They are also often the basic building blocks for many-body systems like to some extent nuclei, where the real many-body aspect is not the dominant feature. The presentation of the subject given here is based on lectures held at various places in the last ten years. The selection of the topics is certainly subjective and influenced by my own research interests. The content of the book is simply organized according to the increasing number of particles treated. Because of its conceptual simplicity single particle motion is very suitable for introducing the basic elements of scattering theory. Using these elements the two-body system is treated for the specific case of two nucleons, which is of great importance in the study of the nuclear interaction. Great space is devoted to the less trivial few-body system consisting of three particles. Again physical examples are taken solely from nuclear physics. Finally the four particle system is discussed so as to familiarize the reader with the techniques required for the formulations of n-bodies in general.

[Proceedings of the 1st Asian-Pacific Conference, Tokyo, Japan, August 23-28, 1999 : Supplement 12](#) Open Road Media

"As an author, editor, and publisher, I never paid much attention to the competition—except in a few cases. This is one of those cases. The *UNIX System Administration Handbook* is one of the few books we ever measured ourselves against." —Tim O'Reilly, founder of O'Reilly Media "This edition is for those whose systems live in the cloud or in virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers, and all the other worker bees who inhabit the modern hive." —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security "This book is fun and functional as a desktop reference. If you use UNIX and Linux systems, you need this book in your short-reach library. It covers a bit of the systems' history but doesn't bloat. It's just straight-forward information delivered in a colorful and memorable fashion." —Jason A.

Nunnally UNIX® and Linux® System Administration Handbook, Fifth Edition, is today's definitive guide to installing, configuring, and maintaining any UNIX or Linux system, including systems that supply core Internet and cloud infrastructure. Updated for new distributions and cloud environments, this comprehensive guide covers best practices for every facet of system administration, including storage management, network design and administration, security, web hosting, automation, configuration management, performance analysis, virtualization, DNS, security, and the management of IT service organizations. The authors—world-class, hands-on technologists—offer indispensable new coverage of cloud platforms, the DevOps philosophy, continuous deployment, containerization, monitoring, and many other essential topics. Whatever your role in running systems and networks built on UNIX or Linux, this conversational, well-written guide will improve your efficiency and help solve your knottiest problems.

[Linux Administration Handbook](#) Cambridge University Press

The development of emerging technologies demands a rapidly expanding knowledge base and intensive collaboration across organizational, institutional and cultural borders. This book is the first of its kind to focus on the management of key emerging tec

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