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**Losing the Nobel Prize: A Story of Cosmology, Ambition, and the Perils of Science's Highest Honor** S. Chand Publishing

For B.Sc. Second Year Students as per UGC Model Curriculum (For All Indian Universities). The book is presented in a comprehensive way using simple language. The sequence of articles in each chapter enables the students to understand the gradual development of the subject. A large number of illustrations, pictures and interesting examples have been given

Introductory Statistics Cambridge University Press

The controversial question of whether the majority of the narrow absorption lines observed in QSO spectra represent cosmological intervening systems or ejecta from the QSO themselves is settled. QSO absorption line spectroscopy, initially a mere technique, has matured into an essential extragalactic research tool for understanding the content of the Universe at redshifts between 0 and 4, and beyond. The only previous important meeting devoted to "QSO Absorption Lines" was held in May 1987 at the Space Telescope Science Institute in Baltimore, Maryland, U.S.A. Since that time, nearly a decade ago, research has been extremely active in this now well-established field of astrophysics. Theoretical studies and simulations have taken advantage of the constant progress in computer technology, and during these last few years, the observational results have benefited largely from the new facilities offered by the Hubble Space Telescope in the UV wavelength range and the Keck Telescope for high-resolution spectroscopy.

Physics, Uspekhi Elsevier

Appraising cancer as a major medical market in the 2010s, Wall Street investors placed their bets on single-technology treatment facilities costing \$100-\$300 million each. Critics inside medicine called the widely-publicized proton-center boom "crazy medicine and unsustainable public policy." There was no valid evidence, they claimed, that proton beams were more effective than less costly alternatives. But developers expected insurance to cover their centers' staggeringly high costs and debts. Was speculation like this new to health care? Cancer, Radiation Therapy, and the Market shows how the radiation therapy specialty in the United States (later called radiation oncology) coevolved with its device industry throughout the twentieth-century. Academic engineers and physicians acquired financing to develop increasingly powerful radiation devices, initiated companies to manufacture the devices competitively, and designed hospital and freestanding procedure units to utilize them. In the process, they incorporated market strategies into medical organization and practice. Although palliative benefits and striking tumor reductions fueled hopes of curing cancer, scientific research all too often found serious patient harm and disappointing beneficial impact on cancer survival. This thoroughly documented and provocative inquiry concludes that public health policy needs to re-evaluate market-driven high-tech medicine and build evidence-based health care systems.

ERDA Energy Research Abstracts John Wiley & Sons

A Forbes, Physics Today, Science News, and Science Friday Best Science Book Of 2018 The inside story of a quest to unlock one of cosmology's biggest mysteries, derailed by the lure of the Nobel Prize. What would it have been like to be an eyewitness to the Big Bang? In 2014, astronomers wielding BICEP2, the most powerful cosmology telescope ever made, revealed that they'd glimpsed

the spark that ignited the Big Bang. Millions around the world tuned in to the announcement broadcast live from Harvard University, immediately igniting rumors of an imminent Nobel Prize. But had these cosmologists truly read the cosmic prologue or, swept up in Nobel dreams, had they been deceived by a galactic mirage? In Losing the Nobel Prize, cosmologist and inventor of the BICEP (Background Imaging of Cosmic Extragalactic Polarization) experiment Brian Keating tells the inside story of BICEP2's mesmerizing discovery and the scientific drama that ensued. In an adventure story that spans the globe from Rhode Island to the South Pole, from California to Chile, Keating takes us on a personal journey of revelation and discovery, bringing to vivid life the highly competitive, take-no-prisoners, publish-or-perish world of modern science. Along the way, he provocatively argues that the Nobel Prize, instead of advancing scientific progress, may actually hamper it, encouraging speed and greed while punishing collaboration and bold innovation. In a thoughtful reappraisal of the wishes of Alfred Nobel, Keating offers practical solutions for reforming the prize, providing a vision of a scientific future in which cosmologists may, finally, be able to see all the way back to the very beginning.

Sources of Quantum Mechanics Simon and Schuster

This volume contains the proceedings of the Fourteenth Thniguchi Symposium on the Theory of Condensed Matter, which was held from November 10 to 14, 1991, at the Shima Kanko Hotel, Shima, Japan. The topic of the symposium was Physics 0/ Mesoscopic Systems. Mesoscopic systems have been developed hand in hand with the recent progress in nanotechnology and are the melting pot of basic science and

technology. In nanostructures, the quantum effect of the electron wave manifests itself because of the limited dimensionality of the structure. The most typical features of these structures are the discreteness of the energy spectrum and the interference effect of electron waves, which have led to various fascinating phenomena. The purpose of this symposium was to discuss the latest developments in mesoscopic systems, especially transport phenomena, from the viewpoint of basic physics. This volume starts with an introduction to the field of mesoscopic systems together with the paper by Prof. R. Kubo, who was the first to note the existence of particular features of discrete energy levels in small metallic particles. In Part II the electronic states of quantum dots and the conductance through them are discussed. Tunneling via small structures and junctions is studied in Part III.

The Roots of Special Relativity Springer Science & Business Media

This latest Fifth Assessment Report of the Intergovernmental Panel on Climate Change (IPCC) will again form the standard reference for all those concerned with climate change and its consequences, including students, researchers and policy makers in environmental science, meteorology, climatology, biology, ecology, atmospheric chemistry and environmental policy.

**Making Government Work** Disha Publications

The discoveries of neutral currents and of the W and Z bosons marked a watershed in the history of CERN. They established the validity of the electroweak theory and convinced the physicists of the importance of renormalizable non-Abelian gauge theories of the fundamental interactions. The articles collected in this book have been written by distinguished physicists who contributed in a crucial way to these developments. The book is a historical account of those discoveries and of the construction and the testing of the standard

model. It also reports on the future of particle physics and provides an updated status report on the LHC and its detectors being currently built at CERN. The book addresses readers interested in particle physics including the educated public. Guide for Intelligence Bureau Assistant Central Intelligence Officer Grade-II/ Executive (Tier-I) Exam 2nd Edition Elsevier

First Published in 2002. Routledge is an imprint of Taylor & Francis, an informa company.

*Practical Handbook of Material Flow Analysis* Springer Science & Business Media

Have you ever wondered how one day the media can assert that alcohol is bad for us and the next unashamedly run a story touting the benefits of daily alcohol consumption? Or how a drug that is pulled off the market for causing heart attacks ever got approved in the first place? How can average readers, who aren't medical doctors or Ph.D.s in biochemistry, tell what they should be paying attention to and what's, well, just more bullshit? Ben Goldacre has made a point of exposing quack doctors and nutritionists, bogus credentialing programs, and biased scientific studies. He has also taken the media to task for its willingness to throw facts and proof out the window. But he's not here just to tell you what's wrong. Goldacre is here to teach you how to evaluate placebo effects, double-blind studies, and sample sizes, so that you can recognize bad science when you see it. You're about to feel a whole lot better.

Water Resources Cancer, Radiation Therapy, and the Market

What makes girls avoid math, science, and technology in school? And what can teacher educators do to help new teachers keep this from happening so that all of our children's talents can find expression? These two volumes provide teaching materials and background information on gender equity for teacher educators in mathematics, science, and technology education and their students. A practical guide, *Gender Equity Right from the Start* is usable by professors of education for preservice teachers and by staff developers

for in-service teachers. By adapting the material for other subjects, it can also be used by teacher educators in content areas other than math, science, and technology. It consists of two volumes: *Instructional Activities for Teacher Educators in Mathematics, Science, and Technology* contains some 200 teaching activities on the major issues in gender equity, emphasizing solutions and not just problems. Activities take place in out-of-class assignments and field experiences whenever possible to minimize demands on class time. *Sources and Resources for Education Students in Mathematics, Science, and Technology* contains student materials needed for the activities as well as extensive print, electronic, organizational, and other resources for further information.

**A Framework for K-12 Science Education** Disha Publications

Freesciencelessons is the most viewed GCSE Science channel on Youtube and has helped countless students to achieve or exceed their expectations in their GCSE Science exams. This is the companion workbook for the GCSE Combined Science Foundation Physics 1 videos for the AQA specification.

Written by Shaun Donnelly (who appears in every video), this book contains hundreds of questions to guide students through the course. Accompanied by detailed on-line answers, this is the perfect resource for every student following the AQA specification. Every topic is covered in depth, including all the required practicals. A specimen exam paper is also included, allowing students to check their progress across the subject.

ERDA Energy Research Abstracts Courier Corporation

This latest Fifth Assessment Report of the IPCC will again form the standard reference for all those concerned with climate change and its consequences.

*Gender Equity Sources and Resources for Education Students* W. W. Norton & Company

Explaining the science behind science fiction and fantasy—from the probable to the impossible From teleportation and space elevators to alien contact and interstellar travel, science fiction and fantasy writers have come up with some brilliant and innovative ideas. Yet how plausible are these ideas—for instance, could Mr. Weasley's flying car in the Harry Potter books really exist? Which concepts might actually happen, and which ones wouldn't work at all? **Wizards, Aliens, and Starships** delves into the most extraordinary details in science fiction and fantasy—such as time warps, shape changing, rocket launches, and illumination by floating candle—and shows readers the physics and math behind the phenomena. With simple mathematical models, and in most cases using no more than high school algebra, Charles Adler ranges across a plethora of remarkable imaginings, from the works of Ursula K. Le Guin to Star Trek and Avatar, to explore what might become reality. Adler explains why fantasy in the Harry Potter and Dresden Files novels cannot adhere strictly to scientific laws, and when magic might make scientific sense in the muggle world. He examines space travel and wonders why it isn't cheaper and more common today. Adler also discusses exoplanets and how the search for alien life has shifted from radio communications to space-based telescopes. He concludes by investigating the future survival of humanity and other intelligent races. Throughout, he cites an abundance of science fiction and fantasy authors, and includes concise descriptions of stories as well as an appendix on Newton's laws of motion. **Wizards, Aliens, and Starships** will speak to anyone wanting to know about the correct—and

incorrect—science of science fiction and fantasy.

**Freesciencelessons GCSE Physics Paper 1: Combined Science Foundation Workbook** CRC Press  
An Introduction to Advanced Quantum Physics presents important concepts from classical mechanics, electricity and magnetism, statistical physics, and quantum physics brought together to discuss the interaction of radiation and matter, selection rules, symmetries and conservation laws, scattering, relativistic quantum mechanics, apparent paradoxes, elementary quantum field theory, electromagnetic and weak interactions, and much more. This book consists of two parts: Part 1 comprises the material suitable for a second course in quantum physics and covers: Electromagnetic Radiation and Matter Scattering Symmetries and Conservation Laws Relativistic Quantum Physics Special Topics Part 2 presents elementary quantum field theory and discusses: Second Quantization of Spin 1/2 and Spin 1 Fields Covariant Perturbation Theory and Applications Quantum Electrodynamics Each chapter concludes with problems to challenge the students' understanding of the material. This text is intended for graduate and ambitious undergraduate students in physics, material sciences, and related disciplines.

**Wizards, Aliens, and Starships** Farrar, Straus and Giroux

Bad things occur and persist because of the presence of powerful beneficiaries. In this provocative and illuminating book, Imad Moosa illustrates the economic motivations behind the last 100 years of international conflict, citing the numerous powerful individual and corporate war profiteers that benefit from war.

**IUTAM Symposium on Geometry and Statistics of Turbulence** MDPI

The CISCE ICSE Class 10 Sample Paper English Paper-1, English Paper-2, Physics,

Chemistry, Maths & Biology for 2022-2023 is one of the best ICSE reference books for the class 10 English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology board exams. A total of 10 Sample Papers which comprise 5 solved & 5 self-assessment Papers are included in this ICSE specimen Sample Paper Class-10 English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology 2022-23. This best ICSE reference book for class 10 English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology board exams is strictly designed as per the latest CISCE ICSE board exam Specimen Paper-2023 to keep the class 10th ICSE students updated and prepared for the CISCE ICSE board exam 2023. The ICSE Class 10 sample Paper English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology for 2022-2023 also include the latest solved board specimen paper 2023 which was released in July 2022 to provide ICSE class 10th students with better exam insight and to boost their confidence to score maximum in ICSE board exam 2023. It contain 5-free sample question papers on Oswaal 360 as well. These are one of the best ICSE reference books for class 10 English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology board exam as they include On-Tips Notes & Revision Notes for Quick Revision and better concept clarity. The ICSE Class 10 Sample Paper English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology for 2022-2023 contain Mind Maps & Mnemonics with 1000+concepts for advanced learning. The ICSE Class 10 Sample Paper English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology for 2022-2023 also contain 200+mcqs & Objective Type Questions for

optimum preparation and therefore making it the best reference book for class 10 English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology . Students will find ample study material and questions in it and therefore will have better exam readiness and conceptual clarity. ICSE Class 10 Sample Paper English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology for 2022-2023 will also boost confidence among students while attempting the question paper as enough practice material is provided with this best ICSE reference book for class 10 English Paper-1, English Paper-2, Physics, Chemistry, Maths & Biology board exams.

**Climate Change 2014 - Impacts, Adaptation and Vulnerability: Regional Aspects** Routledge  
World-leading researchers, including Nobel Laureates, explore the most basic questions of science, philosophy, and the nature of existence. Cambridge University Press

`Nuclear Physics' deals with Bohr's work on nuclear physics which began in the pre-1932 days with his thinking deeply, but inconclusively about the seeming contradictions then presented by the evidence about the nucleus. In 1936, Bohr recognised and described the insights provided by neutron scattering experiments; the excitement of this new understanding and its extension and consolidation occupied much of the subsequent years. In 1939, he was again first in understanding the essential features of the newly discovered phenomenon of fission, applying successfully the point of view of nuclear reactions which he had developed over the past three years. Later, in 1949-50, he was impressed by the success of the nuclear shell model, which on the face of it seemed hard to reconcile with the picture of the closely interacting nucleons which he had

pioneered in 1936. Bohr put much effort into clarifying this paradox.

*Polarimetric SAR Techniques and Applications*  
Edward Elgar Publishing

Jenna Fischer's Hollywood journey began at the age of 22 when she moved to Los Angeles from her hometown of St. Louis. With a theater degree in hand, she was determined, she was confident, she was ready to work hard. So, what could go wrong? Uh, basically everything. The path to being a professional actor was so much more vast and competitive than she'd imagined. It would be eight long years before she landed her iconic role on *The Office*, nearly a decade of frustration, struggle, rejection and doubt. If only she'd had a handbook for the aspiring actor. Or, better yet, someone to show her the way—an established actor who could educate her about the business, manage her expectations, and reassure her in those moments of despair. Jenna wants to be that person for you. With amusing candor and wit, Fischer spells out the nuts and bolts of getting established in the profession, based on her own memorable and hilarious experiences. She tells you how to get the right headshot, what to look for in representation, and the importance of joining forces with other like-minded artists and creating your own work—invaluable advice personally acquired from her many years of struggle. She provides helpful hints on how to be gutsy and take risks, the tricks to good auditioning and callbacks, and how not to fall for certain scams (auditions in a guy's apartment are probably not legit—or at least not for the kind of part you're looking for!). Her inspiring, helpful guidance feels like a trusted friend who's made the journey, and has now returned to walk beside you, pointing out the pitfalls as you blaze your own path towards the life of a professional actor.

*Transport Phenomena in Mesoscopic Systems*  
Routledge

This series has been developed specifically for the Cambridge International AS & A Level Mathematics (9709) syllabus to be examined from 2020. Cambridge International AS & A Level Mathematics: Mechanics matches the corresponding unit of the syllabus, with clear and logical progression through. It contains materials on topics such as velocity and acceleration, force

and motion, friction, connected particles, motion in a straight line, momentum, and work and energy. This coursebook contains a variety of features including recap sections for students to check their prior knowledge, detailed explanations and worked examples, end-of-chapter and cross-topic review exercises and 'Explore' tasks to encourage deeper thinking around mathematical concepts. Answers to coursebook questions are at the back of the book.