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1D and Multi-D Modeling Techniques for IC Engine Simulation Aug 20 2019 1D and Multi-D Modeling Techniques for IC Engine Simulation provides a description of the most significant and recent achievements in the field of 1D engine simulation models and coupled 1D-3D modeling techniques, including 0D combustion models, quasi-3D methods and some 3D model applications.

Future Spacecraft Propulsion Systems and Integration Jul 31 2020 The updated and expanded third edition of this book focuses on the multi-disciplinary coupling between flight-vehicle hardware alternatives and enabling propulsion systems. It discusses how to match near-term and far-term aerospace vehicles to missions and provides a comprehensive overview of the subject, directly contributing to the next-generation space infrastructure, from space tourism to space exploration. This holistic treatment defines a mission portfolio addressing near-term to long-term space transportation needs covering sub-orbital, orbital and escape flight profiles. In this context, a vehicle configuration classification is introduced covering alternatives starting from the dawn of space access. A best-practice parametric sizing approach is introduced to correctly design the flight vehicle for the mission. This technique balances required mission with the available vehicle solution space and is an essential capability sought after by technology forecasters and strategic planners alike.

12 Years CLAT & AILET (2008-19) Topic-wise Solved Papers 3rd Edition Sep 20 2019

Atlas of Knowledge Jun 10 2021 The power of mapping: principles for visualizing knowledge, illustrated by many stunning large-scale, full-color maps. Maps of physical spaces locate us in the world and help us navigate unfamiliar routes. Maps of topical spaces help us visualize the extent and structure of our collective knowledge; they reveal bursts of activity, pathways of ideas, and borders that beg to be crossed. This book, from the author of *Atlas of Science*, describes the power of topical maps, providing readers with principles for visualizing knowledge and offering as examples forty large-scale and more than 100 small-scale full-color maps. Today, data literacy is becoming as important as language literacy. Well-designed visualizations can rescue us from a sea of data, helping us to make sense of information, connect ideas, and make better decisions in real time. In *Atlas of Knowledge*, leading visualization expert Katy Börner makes the case for a systems science approach to science and technology studies and explains different types and levels of analysis. Drawing on fifteen years of teaching and tool development, she introduces a theoretical framework meant to guide readers through user and task analysis; data preparation, analysis, and visualization; visualization deployment; and the interpretation of science maps. To exemplify the framework, the *Atlas* features striking and enlightening new maps from the popular "Places & Spaces: Mapping Science" exhibit that range from "Key Events in the Development of the Video Tape Recorder" to "Mobile Landscapes: Location Data from Cell Phones for Urban Analysis" to "Literary Empires: Mapping Temporal and Spatial Settings of Victorian Poetry" to "Seeing Standards: A Visualization of the Metadata Universe." She also discusses the possible effect of science maps on the practice of science.

SSC CHSL (10+2) Solved Papers Combined Higher Secondary 2022 Sep 01 2020 1. The book is prepared for SSC CHSL (10+2) Tier 1 Online Examination 2. Previous Years' Solved Papers (2021-2018) are given to know the paper pattern 3. Well explained answers of previous years' Question papers The Staff Selection Commission (SSC) has released the official notification of 4726 Vacancies in various departments of Government of India, regarding SSC CHSL (10+2) Examination. To get recruited in the various departments like; Data Entry Operator (DEO), Lower Division Clerk (LDC), etc., the newly updated edition of "SSC CHSL (10+2) Tier 1 for Online Examination 2021 - 25 Solved Papers" is designed to provide crash course which helps students to plan the complete revision of the paper. Provided with 25 Solved Papers from 2021 to 2018, this book gives the insights of the examination pattern. Well explained answers of previous years' Question papers help aspirants in the speedy revision of the concepts, Practice of which will ensure your success in the examination. TOC Solved Papers (2021-2018)

Stochastic Processes and Random Matrices Jul 19 2019 This text covers in detail recent developments in the field of stochastic processes and Random Matrix Theory. Matrix models have been playing an important role in theoretical physics for a long time and are currently also a very active domain of research in mathematics.

TMS 2014 143rd Annual Meeting & Exhibition, Annual Meeting Supplemental Proceedings Feb 18 2022 These papers present advancements in all aspects of high temperature electrochemistry, from the fundamental to the empirical and from the theoretical to the applied. Topics involving the application of electrochemistry to the nuclear fuel cycle, chemical sensors, energy storage, materials synthesis, refractory metals and their alloys, and alkali and alkaline earth metals are included. Also included are papers that discuss various technical, economic, and environmental issues associated with plant operations and industrial practices.

The Handbook of Dialectology Aug 24 2022 The Handbook of Dialectology provides an authoritative, up-to-date and unusually broad account of the study of dialect, in one volume. Each chapter reviews essential research, and offers a critical discussion of the past, present and future development of the area. The volume is based on state-of-the-art research in dialectology around the world, providing the most current work available with an unusually broad scope of topics Provides a practical guide to the many methodological and statistical issues surrounding the collection and analysis of dialect data Offers summaries of dialect variation in the world's most widely spoken and commonly studied languages, including several non-European languages that have traditionally received less attention in general discussions of dialectology Reviews the intellectual development of the field, including its main theoretical schools of thought and research traditions, both academic and applied The editors are well known and highly respected, with a deep knowledge of this vast field of inquiry

The Oxford Handbook of Water Politics and Policy Dec 04 2020 This handbook is currently in development, with individual articles publishing online in advance of print publication. At this time, we cannot add information about unpublished articles in this handbook, however the table of contents will continue to grow as additional articles pass through the review process and are added to the site. Please note that the online publication date for this handbook is the date that the first article in the title was published online. For more information, please read the site FAQs.

Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System Nov 22 2019 New astronomical facilities, such as the under-construction

Large Synoptic Survey Telescope and planned 30-meter-class telescopes, and new instrumentation on existing optical and infrared (OIR) telescopes, hold the promise of groundbreaking research and discovery. How can we extract the best science from these and other astronomical facilities in an era of potentially flat federal budgets for both the facilities and the research grants? Optimizing the U.S. Ground-Based Optical and Infrared Astronomy System provides guidance for these new programs that align with the scientific priorities and the conclusions and recommendations of two National Research Council (NRC) decadal surveys, *New Worlds, New Horizons for Astronomy and Astrophysics* and *Vision and Voyages for Planetary Sciences in the Decade 2013-2022*, as well as other NRC reports. This report describes a vision for a U.S. OIR System that includes a telescope time exchange designed to enhance science return by broadening access to capabilities for a diverse community, an ongoing planning process to identify and construct next generation capabilities to realize decadal science priorities, and near-term critical coordination, planning, and instrumentation needed to usher in the era of LSST and giant telescopes.

Physics Oct 02 2020 Excel success one HSC physics contains 2004-2014, 2015-2019 past HSC questions, with detailed answers written by experienced HSC markers, a topic index, a mark maximizer guide and a glossary of key verbs. This title helps you get the results you want by practising actual HSC papers and answering HSC-level questions.

Exploring Quantum Foundations with Single Photons Nov 15 2021 This thesis uses high-precision single-photon experiments to shed new light on the role of reality, causality, and uncertainty in quantum mechanics. It provides a comprehensive introduction to the current understanding of quantum foundations and details three influential experiments that significantly advance our understanding of three core aspects of this problem. The first experiment demonstrates that the quantum wavefunction is part of objective reality, if there is any such reality in our world. The second experiment shows that quantum correlations cannot be explained in terms of cause and effect, even when considering superluminal influences between measurement outcomes. The final experiment in this thesis demonstrates a novel uncertainty relation for joint quantum measurements, where the textbook relation does not apply.

ICICKM 2018 15th International Conference on Intellectual Capital Knowledge Management & Organisational Learning Oct 14 2021

Errorless UPPSC General Studies Prelim Paper 1 - 10 Year-wise Solved Papers (2010 - 19) Jan 05 2021

SOUVENIR of 4th International Science Congress Mar 27 2020

The Best Writing on Mathematics 2015 May 09 2021 The year's finest writing on mathematics from around the world This annual anthology brings together the year's finest mathematics writing from around the world. Featuring promising new voices alongside some of the foremost names in the field, *The Best Writing on Mathematics 2015* makes available to a wide audience many articles not easily found anywhere else—and you don't need to be a mathematician to enjoy them. These writings offer surprising insights into the nature, meaning, and practice of mathematics today. They delve into the history, philosophy, teaching, and everyday occurrences of math, and take readers behind the scenes of today's hottest mathematical debates. Here David Hand explains why we should actually expect unlikely coincidences to happen; Arthur Benjamin and Ethan Brown unveil techniques for improvising custom-made magic number squares; Dana Mackenzie describes how mathematicians are making essential contributions to the development of synthetic biology; Steven Strogatz tells us why it's worth writing about math for people who are alienated from it; Lisa Rougetet traces the earliest written descriptions of Nim, a popular game of mathematical strategy; Scott Aaronson looks at the unexpected implications of testing numbers for randomness; and much, much more. In addition to presenting the year's most memorable writings on mathematics, this must-have anthology includes a bibliography of other notable writings and an introduction by the editor, Mircea Pitici. This book belongs on the shelf of anyone interested in where math has taken us—and where it is headed.

29 Online JEE-Main Year Wise Solved Papers (2019-2012) with Solution and Detailed Analysis Dec 16 2021 Salient features of the book are: 1. 2610 MCQs 2. Authentic Papers 3. Errorless Solutions 4. Trend Analysis of 2019, 2018 & 2017 Online Papers 5. Relevant & high-quality Test Papers prepared by highly experienced faculty members 6. Detailed solution of each paper for self-evaluation so that you can focus on your weak areas to improve 7. Help student to plan question paper attempt strategy for maximum output 8. Increases speed & accuracy and builds confidence to face JEE Main competitive examination 9. Develops sound examination temperament in students to face the competitive examination with a supreme state of confidence and ensures success 10. The student is advised to take these papers in the prescribed time limit by creating an exam like environment at home 11. We firmly believe that the book in this form will definitely help a genuine, hardworking student 12. We have put our best efforts to make

The Trouble with Doctors: Jul 11 2021 This book arose from the authors knowledge of a small number of doctors who were not behaving in a professional or proper manner. As he read about them, he found he was astonished at the extent of some offenders. Any human being can have flaws in their character, personality disorders or mental illnesses, what if that person is your doctor? This book takes the reader on a journey from the colorful life of Geoffrey Edelsten through Medawar's *The Strange Case of the Spotted Mice*, a fertility specialist who used his own sperm to impregnate over 50 women without their knowledge to the lasting and devastating effects of the MMR vaccine debacle. The author suggests that a test needs to be devised to detect character flaws such as greed before they harm innocent people through fraud and deceit. As much a reference book as it is a celebration of the brave 'whistleblower' and witty commentary on human nature, capturing the imagination, leading the reader to wonder why people make the decisions they do. Anderson himself had a colorful life and a brilliant career, leaving an immeasurable legacy to medicine. His wish was that this book would prompt change, leading to enhanced integrity in the medical and scientific world.

Handbook of Research on Applied Learning Theory and Design in Modern Education Dec 24 2019 The field of education is in constant flux as new theories and practices emerge to engage students and improve the learning experience. Research advances help to make these improvements happen and are essential to the continued improvement of education. The *Handbook of Research on Applied Learning Theory and Design in Modern Education* provides international perspectives from education professors and researchers, cyberneticists, psychologists, and instructional designers on the processes and mechanisms of the global learning environment. Highlighting a compendium of trends, strategies, methodologies, technologies, and models of applied learning theory and design, this publication is well-suited to meet the research and practical needs of academics, researchers, teachers, and graduate students as well as curriculum and instructional design professionals.

14 Years NEET Solved Papers (2020 to 2007) Apr 27 2020

Handbook of High Frequency Trading Feb 24 2020 This comprehensive examination of high frequency trading looks beyond mathematical models, which are the subject of most HFT books, to the mechanics of the marketplace. In 25 chapters, researchers probe the intricate nature of high frequency market dynamics, market structure, back-office processes, and regulation. They look deeply into computing infrastructure, describing data sources, formats, and required processing rates as well as software architecture and current technologies. They also create contexts, explaining the historical rise of automated trading systems, corresponding technological advances in hardware and software, and the evolution of the trading landscape. Developed for students and professionals who want more than discussions on the econometrics of the modelling process, *The Handbook of High Frequency Trading* explains the entirety of this controversial trading strategy. Answers all questions about high frequency trading without being limited to mathematical modelling Illuminates market dynamics, processes, and regulations Explains how high frequency trading evolved and predicts its future developments

ICSE 10 Years Solved Papers Class 10 for 2022 Examinations Mar 07 2021 Arundeeep's ICSE 10 Years Solved Papers for Class X develops deep understanding of the subject and will help you excel in your Board Exams of 2021. ICSE 10 Years Solved Question Paper Highlights: It includes all the 15 subject papers English I, English II, Hindi, Physics, Chemistry, Biology, Mathematics, History and Civics, Geography, Commercial Studies, Commercial Applications, Economics, Economics Applications, Computer Application and Physical Education, Prepare thoroughly with the latest CISCE Curriculum question papers and solved answers from 2011 - 2021 Get familiarized with the Style and Type of questions Proper marking schemes applied for Self Assessment Special topic on Creating Vision Board, maintaining Study Log and Tips on Exam Countdown.

Handbook of Flexible and Stretchable Electronics Oct 22 2019 Flexibility and stretchability of electronics are crucial for next generation electronic devices that involve skin contact sensing and therapeutic actuation. This handbook provides a complete entrée to the field, from solid-state physics to materials chemistry, processing, devices, performance, and reliability testing, and integrated systems development. This work shows how microelectronics, signal processing, and wireless communications in the same circuitry are impacting electronics, healthcare, and energy applications. Key Features: * Covers the fundamentals to device applications, including solid-state and mechanics, chemistry, materials science, characterization techniques, and fabrication; * Offers a comprehensive base of knowledge for moving forward in this field, from foundational research to technology development; * Focuses on processing, characterization, and circuits and systems integration for device applications; * Addresses the basic physical properties and mechanics, as well as the nuts and bolts of reliability and performance analysis; * Discusses various technology applications, from printed electronics to logic and memory devices, sensors, actuators, displays, and energy storage and harvesting. This handbook will serve as the one-stop knowledge base for readership who are interested in flexible and stretchable

electronics.

Handbook of Digital Currency May 29 2020 Incorporating currencies, payment methods, and protocols that computers use to talk to each other, digital currencies are poised to grow in use and importance. The Handbook of Digital Currency gives readers a way to learn about subjects outside their specialties and provides authoritative background and tools for those whose primary source of information is journal articles. Taking a cross-country perspective, its comprehensive view of the field includes history, technicality, IT, finance, economics, legal, tax and regulatory environment. For those who come from different backgrounds with different questions in mind, The Handbook of Digital Currency is an essential starting point. Discusses all major strategies and tactics associated with digital currencies, their uses, and their regulations Presents future scenarios for the growth of digital currencies Written for regulators, crime prevention units, tax authorities, entrepreneurs, micro-financiers, micro-payment businesses, cryptography experts, software developers, venture capitalists, hedge fund managers, hardware manufacturers, credit card providers, money changers, remittance service providers, exchanges, and academics Winner of the 2015 "Outstanding Business Reference Source" by the Reference and User Services Association (RUSA)

Intelligent Materials and Structures Jun 22 2022 This new edition of our 2016 book provides insight into designing intelligent materials and structures for special application in engineering. Literature is updated throughout and a new chapter on optics fibers has been added. The book discusses simulation and experimental determination of physical material properties, such as piezoelectric effects, shape memory, electro-rheology, and distributed control for vibrations minimization.

Applied Physics, System Science and Computers III Jun 29 2020 This book reports on advanced theories and methods in three related fields of research: applied physics, system science and computers. The first part covers applied physics topics, such as lasers and accelerators; fluid dynamics, optics and spectroscopy, among others. It also addresses astrophysics, security, and medical and biological physics. The second part focuses on advances in computers, such as those in the area of social networks, games, internet of things, deep learning models and more. The third part is especially related to systems science, covering swarm intelligence, smart cities, complexity and more. Advances in and application of computer communication, artificial intelligence, data analysis, simulation and modeling are also addressed. The book offers a collection of contributions presented at the 3rd International Conference on Applied Physics, System Science and Computers (APSAC), held in Dubrovnik, Croatia on September 26–28, 2018. Besides presenting new methods, it is also intended to promote collaborations between different communities working on related topics at the interface between physics, computer science and engineering.

TMS 2014 143rd Annual Meeting and Exhibition Jan 17 2022 These papers present advancements in all aspects of high temperature electrochemistry, from the fundamental to the empirical and from the theoretical to the applied. Topics involving the application of electrochemistry to the nuclear fuel cycle, chemical sensors, energy storage, materials synthesis, refractory metals and their alloys, and alkali and alkaline earth metals are included. Also included are papers that discuss various technical, economic, and environmental issues associated with plant operations and industrial practices.

10 Years Solved Papers for Science ISC Class 12 (2022 Exam) - Comprehensive Handbook of 10 Subjects - Yearwise Board Solutions Aug 12 2021

Applied Mechanics, Mechatronics and Intelligent Systems - Proceedings of the 2015 International Conference (ammis2015) Jan 25 2020 This book consists of one hundred and twenty-five selected papers presented at the 2015 International Conference on Applied Mechanics, Mechatronics and Intelligent Systems (AMMIS2015), which was held in Nanjing, China during June 19-20, 2015. AMMIS2015 focuses on seven main areas, namely, applied mechanics, control and automation, intelligent systems, computer technology, electronics engineering, electrical engineering, and materials science and technology. Experts in this field from all over the world contributed to the collection of research results and development activities. AMMIS2015 provides an excellent international exchange platform for researchers to share their development works and results in these areas. All papers selected for this proceeding were subjected to a rigorous peer-review process.

Remote Performances in Nature and Architecture Sep 13 2021 Outlandia is an off-grid artists' fieldstation, a treehouse imagined by artists London Fieldworks (Bruce Gilchrist & Jo Joelson) and designed by Malcolm Fraser Architects, situated in Glen Nevis, opposite Ben Nevis. It is performative architecture that immerses its occupants in a particular environment, provoking creative interaction between artists and the land. This book explores the relationship between place and forms of thought and creative activity, relating Outlandia and the artists there to the tradition of generative thinking and making structures that have included Goethe's Gartenhaus in Weimar, Henry Thoreau's cabin at Walden Pond and Dylan Thomas's writing shack in Laugharne. Based on a series of residencies and radio broadcasts produced by London Fieldworks in collaboration with Resonance 104.4fm, the Remote Performances project enabled twenty invited artists to consider and engage in transmissions, sound performances and dialogues on their artmaking strategies immersed in this specific rural environment of mountain, forest and river; flora and fauna. Some artists engaged in dialogue with people living and working in the area with a range of specialisms and experience in, for examples, forestry, mountain culture, wildlife, tourism, and local history. This book explores the ways in which being in the field impacts on artists and permeates through to the artworks they create. It considers the relationship between geography and contemporary art and artists' use of maps and fieldwork. It charts these artists' explorations of the ecological and cultural value of the natural environment, questioning our perceptions and relationships to landscape, climate and their changes. The book is an inspiring collection of ways to think differently about our relationship with the changing natural environment. The book includes essays by Jo Joelson, Francis McKee, Tracey Warr and Bruce Gilchrist, and texts, images and drawings by the artists: Bram Thomas Arn

Ships and Offshore Structures XIX Nov 03 2020 This three-volume work presents the proceedings from the 19th International Ship and Offshore Structures Congress held in Cascais, Portugal on 7th to 10th September 2015. The International Ship and Offshore Structures Congress (ISSC) is a forum for the exchange of information by experts undertaking and applying marine structural research. The aim of

29 Online JEE Main Year-wise Solved Papers (2020 - 2012) with 5 Online Mock Tests 3rd Edition Mar 19 2022

The Physics of the B Factories Feb 06 2021 This comprehensive work thoroughly introduces and reviews the set of results from Belle and BaBar - after more than two decades of independent and complementary work - all the way from the detectors and the analysis tools used, up to the physics results, and the interpretation of these results. The world's two giant B Factory collaborations, Belle at KEK and BaBar at SLAC, have successfully completed their main mission to discover and quantify CP violation in the decays of B mesons. CP violation is a necessary requirement to distinguish unambiguously between matter and antimatter. The shared primary objective of the two B Factory experiments was to determine the shape of the so-called unitarity triangle, an abstract triangle representing interactions of quarks, the elementary constituents of matter. The area of the triangle is a measure of the amount of CP violation associated with the weak force. Many other measurements have been performed by the B Factories and are also discussed in this work.

Self-Help to ICSE Sample Question Papers Class 10 Physics (For 2021 Examinations) Oct 26 2022 Preparing for any Examination calls for a lot of discipline and perseverance on the part of a student. We at Arundeeep's Self-Help Books have always strived to be a student's closest companion, his guiding light and his trusted friend by helping them to sail through this important phase with utmost ease and confidence and emerge a winner!! In order to excel, a student not only has to be updated with the latest CISCE Board curriculum but also stay focused and use necessary exam tools to his advantage. CISCE has released an updated curriculum for Academic Year 2018-2021 on which Arundeeep's Self-Help Books has based all its Exam Preparatory Material. We have always been proactive to follow the changes proposed by the Board and implement the same as soon as possible to put the students, parents and teachers at ease. The ICSE Sample Question Papers have been developed as per the latest Board guidelines in order to support the students during the crucial exam preparatory phase. They provide the most formidable combination of Questions along with top notch Learning Tools to empower the students to conquer every examination they face. Each Sample Question Paper has been designed with a lot of care and precision. Our panel of experts have tried their best to arrange each Sample Question Paper in such a way that it gives the students an exact feel of the Final Examination. Special care has been taken to keep all the solutions simple and precise.

DRHA2014 Proceedings / Full Papers Sep 25 2022

Music and the Making of Modern Science May 21 2022 A wide-ranging exploration of how music has influenced science through the ages, from fifteenth-century cosmology to twentieth-century string theory. In the natural science of ancient Greece, music formed the meeting place between numbers and perception; for the next two millennia, Pestic tells us in Music and the Making of Modern Science, "liberal education" connected music with arithmetic, geometry, and astronomy within a fourfold study, the quadrivium. Peter Pestic argues provocatively that music has had a formative effect on the development of modern science—that music has been not just a charming accompaniment to thought but a conceptual force in its own right. Pestic explores a series of episodes in which music influenced science, moments in which prior developments in music arguably affected subsequent aspects of natural science. He describes encounters between harmony and fifteenth-century cosmological controversies, between musical initiatives and irrational numbers, between vibrating bodies and the emergent electromagnetism. He offers lively accounts of how Newton applied the musical scale to define the colors in the spectrum; how Euler

and others applied musical ideas to develop the wave theory of light; and how a harmonium prepared Max Planck to find a quantum theory that reengaged the mathematics of vibration. Taken together, these cases document the peculiar power of music—its autonomous force as a stream of experience, capable of stimulating insights different from those mediated by the verbal and the visual. An innovative e-book edition available for iOS devices will allow sound examples to be played by a touch and shows the score in a moving line.

21 Online JEE Main Year-wise Solved Papers with 5 Online Mock Tests for NTA JEE Main Apr 20 2022 This title contains an Access Code to access the Online Material. In case you face any difficulty, email at ebooks.support@aiets.co.in. 21 Online JEE Main Year-wise Solved Papers for NTA JEE Main consists of Past Year-wise Solved Papers from 2012 - 2018. The book contains 1890 past MCQs - 630 each in Physics, Chemistry & Mathematics. The students can also appear in these tests as Practice Sets.

Psychological Perspectives on Risk and Risk Analysis Jun 17 2019 This authoritative collection goes beyond economic statistics and probability data to offer a robust psychological understanding of risk perception and risk taking behavior. Expert contributors examine various risk domains in life, and pinpoint cognitive, emotional, and personality factors contributing to individual differences in risk taking as well as the many nuances social demographics (e.g., culture, gender) bring to risk decisions. Coverage takes competing theories and studies into account to identify mechanisms involved in processing and acting on uncertainty. And implications and applications are demonstrated in varied fields, from updated risk models for the insurance sector to improved risk communication in health services to considering risk perception in policy decisions. A sampling of the topics: Personality and risk: beyond daredevils—risk taking from a temperament perspective. Cognitive, developmental, and neurobiological aspects of risk judgments. The group effect: social influences on risk identification, analysis, and decision-making. Cognitive architectures as a scaffolding for risky choice models. Improving understanding of health-relevant numerical information. Risk culture as a framework for improving competence in risk management. Psychological Perspectives on Risk and Risk Analysis will be of great interest to researchers in and outside of psychology, including decision-making experts and behavioral economists. Additionally, this volume will appeal to practitioners who often have to make risky decisions, such as managers and physicians.

Reconstruction of Macroeconomics: Methods of Statistical Physics, and Keynes' Principle of Effective Demand Jul 23 2022 This book explains how standard micro-founded macroeconomics is misguided and proposes an alternative method based on statistical physics. The Great Recession following the bankruptcy of Lehman Brothers in September 2008 amply demonstrated that mainstream micro-founded macroeconomics was in trouble. The new approach advanced in this book reasonably explains important macro-problems such as employment, business cycles, growth, and inflation/deflation. The key concept is demand failures, which modern micro-founded macroeconomics has ignored. "It (Chapter 3) captures analytically a good part of the intuition that underlies the Keynesian economics of people like Tobin and me." Robert Solow, Emeritus Institute Professor of Economics, Massachusetts Institute of Technology, Nobel Laureate in Economics, 1987 "Professor Hiroshi Yoshikawa provides a unique synthesis of statistical physics and macro-economic theory in order to confront the dismal failure in economics and in finance to understand how an economy or a financial market works, given the heterogeneous decision making of many different individual interacting actors. Economics has failed in this regard with the naive and often misleading concept of "representative agents." The author presents many insights on the historical development, concepts, and errors made by the most illustrious economists in the past. This book should be essential readings for any economics students as well as academic researchers and policy makers, who should learn to bring back good-sense thinking in their impactful decisions." Didier Sornette, Professor on the Chair of Entrepreneurial Risks at the Swiss Federal Institute of Technology Zurich (ETH Zurich)

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