

Classical Mechanics By Suresh Chandra

Intelligent Manufacturing and Energy
Sustainability Smart Intelligent Computing and Applications
Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems: General Relativity, Astrophysics, and Cosmology
Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (India 2012) held in Visakhapatnam, India, January 2012
Photocatalysis
Proceedings of the International Conference on Data Engineering and Communication Technology
Proceedings of International Conference on Advances in Computing Swarm, Evolutionary, and Memetic Computing, Part IIA
Text Book of Mathematical Physics
Information Systems Design and Intelligent Applications
Smart Intelligent Computing and Applications
Mathematical Reviews
Information Systems Design and Intelligent Applications
Microelectronics, Electromagnetics and Telecommunications
Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI)
Gravitational Waves
Embedded Systems and Artificial Intelligence
A Primer of Statistical Mechanics
Fundamentals of Mechanics
India'S Glorious Scientific Tradition
FUNDAMENTALS OF ENGINEERING
THERMODYNAMICS
QUANTUM MECHANICS
Mechanical Engineering for Sustainable Development: State-of-the-Art Research
Information Systems Design and Intelligent Applications
India's New Capitalists
Internet

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Classical Mechanics
Smart Computing and Informatics
Introduction to Classical Mechanics
Heroes and Philosophy
Intelligent Computing and Communication
Indian Science Abstracts
A Textbook Of Statistical Mechanics (hb)

Intelligent Manufacturing and Energy Sustainability

This book includes selected, high-quality papers presented at the International Conference on Intelligent Manufacturing and Energy Sustainability (ICIMES 2019) held at the Department of Mechanical Engineering, Malla Reddy College of Engineering & Technology (MRCET), Maisammaguda, Hyderabad, India, from 21 to 22 June 2019. It covers topics in the areas of automation, manufacturing technology and energy sustainability.

Smart Intelligent Computing and Applications

Ever since the discovery of graphene, two-dimensional layered materials (2DLMs) have been the

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central tool of the materials research community. The reason behind their importance is their superlative and unique electronic, optical, physical, chemical and mechanical properties in layered form rather than in bulk form. The 2DLMs have been applied to electronics, catalysis, energy, environment, and biomedical applications. The following topics are discussed in the book's fifteen chapters:

- The research status of the 2D metal-organic frameworks and the different techniques used to synthesize them.
- 2D black phosphorus (BP) and its practical application in various fields.
- Reviews the synthesis methods of MXenes and provides a detailed discussion of their structural characterization and physical, electrochemical and optical properties, as well as applications in catalysis, energy storage, environmental management, biomedicine, and gas sensing.
- The carbon-based materials and their potential applications via the photocatalytic process using visible light irradiation.
- 2D materials like graphene, TMDCs, few-layer phosphorene, MXene in layered form and their heterostructures.
- The structure and applications of 2D perovskites.
- The physical parameters of pristine layered materials, ZnO, transition metal dichalcogenides, and heterostructures of layered materials are discussed.
- The coupling of graphitic carbon nitride with various metal sulfides and oxides to form efficient heterojunction for water purification.
- The structural features, synthetic methods, properties, and different applications and properties of 2D zeolites.
- The methods for synthesizing 2D hollow nanostructures are featured and their structural aspects and potential in medical and non-medical applications.
- The

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characteristics and structural aspects of 2D layered double hydroxides (LDHs) and the various synthesis methods and role of LDH in non-medical applications as adsorbent, sensor, catalyst, etc. • The synthesis of graphene-based 2D layered materials synthesized by using top-down and bottom-up approaches where the main emphasis is on the hot-filament thermal chemical vapor deposition (HFTCVD) method. • The different properties of 2D h-BN and borophene and the various methods being used for the synthesis of 2D h-BN, along with their growth mechanism and transfer techniques. • The physical properties and current progress of various transition metal dichalcogenides (TMDC) based on photoactive materials for photoelectrochemical (PEC) hydrogen evolution reaction. • The state-of-the-art of 2D layered materials and associated devices, such as electronic, biosensing, optoelectronic, and energy storage applications.

Proceedings of First International Conference on Information and Communication Technology for Intelligent Systems:

Most common people feel that the first rays of science broke out in the West and thus started the wheel of development throughout the world. There was darkness in the field of science in the east. As such, there is a tendency to follow the West. The unawareness of the fact that we had a scientific tradition and a scientific point of view often puts us on the backfoot. This book is an attempt to bring to light

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the glorious tradition that we had in various streams of science. Today's generation can get a direction from reading this literature; they can gain self-respect and hold their head high for being the major contributors to science and Technology. Besides acquainting the modern generation with India's contributions in the field of science, This book will also inspire them to study more and experiment.

General Relativity, Astrophysics, and Cosmology

This book covers all important topics of photocatalysis in simple language with clear presentation. Nanostructures are continuously improving the functional characteristics of the material because of enhanced surface to volume ratio. Therefore, in this book a concise and balanced account of all key aspects of nanostructures-based-photocatalysis, such as kinetics, mechanism, essential factors influencing the photocatalysis, as well as its recent developments, important applications, and future prospects has been presented systematically. In addition, historical background on each topic has also been provided along with the recent development to make it interesting to read.

Proceedings of the International Conference on Information Systems Design and Intelligent Applications 2012 (India 2012) held in Visakhapatnam, India, January 2012

Photocatalysis

On 14 September 2015, after 50 years of searching, gravitational waves were detected for the first time and astronomy changed for ever. Until then, investigation of the universe had depended on electromagnetic radiation: visible light, radio, X-rays and the rest. But gravitational waves – ripples in the fabric of space and time – are unrelenting, passing through barriers that stop light dead. At the two 4-kilometre long LIGO observatories in the US, scientists developed incredibly sensitive detectors, capable of spotting a movement 100 times smaller than the nucleus of an atom. In 2015 they spotted the ripples produced by two black holes spiralling into each other, setting spacetime quivering. This was the first time black holes had ever been directly detected – and it promises far more for the future of astronomy. Brian Clegg presents a compelling story of human technical endeavour and a new, powerful path to understand the workings of the universe.

Proceedings of the International Conference on Data Engineering and Communication Technology

This volume contains the papers presented at INDIA-2012: International conference on Information system Design and Intelligent Applications held on January 5-7, 2012 in Vishakhapatnam, India. This conference was organized by Computer Society of India (CSI), Vishakhapatnam chapter well supported

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by Vishakhapatnam Steel, RINL, Govt of India. It contains 108 papers contributed by authors from six different countries across four continents. These research papers mainly focused on intelligent applications and various system design issues. The papers cover a wide range of topics of computer science and information technology discipline ranging from image processing, data base application, data mining, grid and cloud computing, bioinformatics among many others. The various intelligent tools like swarm intelligence, artificial intelligence, evolutionary algorithms, bio-inspired algorithms have been applied in different papers for solving various challenging IT related problems.

Proceedings of International Conference on Advances in Computing

Swarm, Evolutionary, and Memetic Computing, Part II

The third international conference on Information Systems Design and Intelligent Applications (INDIA – 2016) held in Visakhapatnam, India during January 8-9, 2016. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of three different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy,

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communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist.

A Text Book of Mathematical Physics

This volume contains 73 papers presented at CSI 2014: Emerging ICT for Bridging the Future: Proceedings of the 49th Annual Convention of Computer Society of India. The convention was held during 12-14, December, 2014 at Hyderabad, Telangana, India. This volume contains papers mainly focused on Fuzzy Systems, Image Processing, Software Engineering, Cyber Security and Digital Forensic, E-Commerce, Big Data, Cloud Computing and ICT applications.

Information Systems Design and Intelligent Applications

Smart Intelligent Computing and Applications

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This volume provides valuable insight into diverse topics related to mechanical engineering and presents state-of-the-art work on sustainable development being carried out throughout the world by budding researchers and scientists. Divided into three sections, the volume covers machine design, materials and manufacturing, and thermal engineering. It presents innovative research work on machine design that is of relevance to such varied fields as the automotive industry, agriculture, and human anatomy. The second section addresses materials characterization, an important tool in assessing proper materials for application-oriented jobs, and emerging unconventional machining processes that are important in design engineering for new products and tools. The section on thermal engineering broadly covers the use of viable alternate fuels, such as HHO, biodiesel, etc., with the objective of reducing the burden on petroleum reserves and the environment.

Mathematical Reviews

Information Systems Design and Intelligent Applications

This book gathers high-quality papers presented at the Third International Conference on Smart Computing and Informatics (SCI 2018-19), which was organized by the School of Computer Engineering and School of Computer Application, Kalinga Institute of Industrial Technology, Bhubaneswar, India, on 21-22

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December, 2018. It includes advanced and multi-disciplinary research on the design of smart computing and informatics. Thematically, the book broadly focuses on several innovation paradigms in system knowledge, intelligence and sustainability that can help to provide realistic solutions to various problems confronting society, the environment, and industry. The respective papers offer valuable insights into the how emerging computational and knowledge transfer approaches can be used to deliver optimal solutions in science, technology and healthcare.

Microelectronics, Electromagnetics and Telecommunications

This two-volume book contains research work presented at the First International Conference on Data Engineering and Communication Technology (ICDECT) held during March 10–11, 2016 at Lavasa, Pune, Maharashtra, India. The book discusses recent research technologies and applications in the field of Computer Science, Electrical and Electronics Engineering. The aim of the Proceedings is to provide cutting-edge developments taking place in the field data engineering and communication technologies which will assist the researchers and practitioners from both academia as well as industry to advance their field of study.

Emerging ICT for Bridging the Future - Proceedings of the 49th Annual Convention of the Computer Society of India (CSI)

Gravitational Waves

This book features a collection of high-quality, peer-reviewed papers presented at the Third International Conference on Intelligent Computing and Communication (ICICC 2019) held at the School of Engineering, Dayananda Sagar University, Bengaluru, India, on 7 – 8 June 2019. Discussing advanced and multi-disciplinary research regarding the design of smart computing and informatics, it focuses on innovation paradigms in system knowledge, intelligence and sustainability that can be applied to provide practical solutions to a number of problems in society, the environment and industry. Further, the book also addresses the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in various disciplines of science, technology and healthcare.

Embedded Systems and Artificial Intelligence

This list (only available in english language) includes scientists involved in scientific fields. The 2021 issue of this directory includes the scientists found in the Internet. The scientists of the directory are only those involved in physics (natural philosophy). The list includes about 10 000 names of scientists (doctors or diplome engineers for more than 70%). Their position is shortly presented together with their proposed alternative theory when applicable. There are more than 2500 authors of such theories, all amazingly very

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different from one another. Ce répertoire, exclusivement disponible en langue anglaise, inclut les scientifiques, exclusivement dans le domaine de la physique. L'édition 2021 de cette liste comporte près de 10 000 noms de scientifiques, (docteurs ou ingénieurs à plus de 70%). Elle précise leur position de manière succincte et expose, le cas échéant, les lignes directrices de la solution alternative qu'ils proposent. Il y a ainsi plus de 2500 auteurs de telles théories, toutes remarquablement différentes.

A Primer of Statistical Mechanics

The Second Edition of this concise and compact text offers students a thorough understanding of the basic principles of quantum mechanics and their applications to various physical and chemical problems. This thoroughly class-texted material aims to bridge the gap between the books which give highly theoretical treatments and the ones which present only the descriptive accounts of quantum mechanics. Every effort has been made to make the book explanatory, exhaustive and student friendly. The text focuses its attention on problem-solving to accelerate the student's grasp of the basic concepts and their applications. What is new to this Edition : Includes new chapters on Field Quantization and Chemical Bonding. Provides new sections on Rayleigh Scattering and Raman Scattering. Offers additional worked examples and problems illustrating the various concepts involved. This textbook is designed as a textbook for postgraduate and advanced undergraduate courses in physics and chemistry.

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Solutions Manual containing the solutions to chapter-end exercises is available for instructors. Solution Manual is available for adopting faculty. Click here to request

Fundamentals of Mechanics

India'S Glorious Scientific Tradition

This is the first International Conference on Advances in Computing (ICAdC-2012). The scope of the conference includes all the areas of New Theoretical Computer Science, Systems and Software, and Intelligent systems. Conference Proceedings is a culmination of research results, papers and the theory related to all the three major areas of computing mentioned above. Helps budding researchers, graduates in the areas of Computer Science, Information Science, Electronics, Telecommunication, Instrumentation, Networking to take forward their research work based on the reviewed results in the paper by mutual interaction through e-mail contacts in the proceedings.

FUNDAMENTALS OF ENGINEERING THERMODYNAMICS

The second international conference on INformation Systems Design and Intelligent Applications (INDIA - 2015) held in Kalyani, India during January 8-9, 2015. The book covers all aspects of information system design, computer science and technology, general

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sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of two different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy, communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano-computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist.

QUANTUM MECHANICS

Mechanical Engineering for Sustainable Development: State-of-the-Art Research

These two volumes, LNCS 7076 and LNCS 7077, constitute the refereed proceedings of the Second International Conference on Swarm, Evolutionary, and Memetic Computing, SEMCCO 2011, held in Visakhapatnam, India, in December 2011. The 124 revised full papers presented in both volumes were carefully reviewed and selected from 422

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submissions. The papers explore new application areas, feature new bio-inspired algorithms for solving specific hard optimization problems, and review the latest progresses in the cutting-edge research with swarm, evolutionary, and memetic computing in both theoretical and practical aspects.

Information Systems Design and Intelligent Applications

The volume contains 94 best selected research papers presented at the Third International Conference on Micro Electronics, Electromagnetics and Telecommunications (ICMEET 2017) The conference was held during 09-10, September, 2017 at Department of Electronics and Communication Engineering, BVRIT Hyderabad College of Engineering for Women, Hyderabad, Telangana, India. The volume includes original and application based research papers on microelectronics, electromagnetics, telecommunications, wireless communications, signal/speech/video processing and embedded systems.

India's New Capitalists

Mathematical Physics is a vast topic which will need several volumes to cover. This text however discusses Vector Spaces, Matrices, Special Functions, Fourier Series, Fourier Transform and Laplace Transform this forming a complete set for postgraduate and engineering students. Each of the topics is developed in a systematic manner.

Internet of Things and Big Data Analytics Toward Next-Generation Intelligence

For about half a century the general theory of relativity attracted little attention from physicists. However, the discovery of compact objects such as quasars and pulsars, as well as candidates for black holes on the one hand, and the microwave background radiation on the other hand completely changed the picture. In addition, developments in elementary particle physics, such as predictions of the behavior of matter at the ultrahigh energies that might have prevailed in the early stages of the big bang, have greatly enhanced the interest in general relativity. These developments created a large body of readers interested in general relativity, and its applications in astrophysics and cosmology. Having neither the time nor the inclination to delve deeply into the technical literature, such readers need a general introduction to the subject before exploring applications. It is for these readers that the present volume is intended. Keeping in mind the broad range of interests and wanting to avoid mathematical complications as much as possible, we have ventured to combine all three topics relativity, astrophysics, and cosmology-in a single volume. Naturally, we had to make a careful selection of topics to be discussed in order to keep the book to a manageable length.

Encyclopaedia of Hindu Gods and Goddesses

This book presents high-quality papers from the Third

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International Conference on Smart Computing and Informatics (SCI 2018–19), organized by the School of Computer Engineering and School of Computer Application, Kalinga Institute of Industrial Technology Deemed to be University, Bhubaneswar, from 21 to 22 December 2018. It includes advanced and multi-disciplinary research on the design of smart computing and informatics, focusing on innovation paradigms in system knowledge, intelligence and sustainability that have the potential to provide realistic solutions to various problems in society, the environment and industry. The papers featured provide a valuable contribution to the deployment of emerging computational and knowledge transfer approaches, optimizing solutions in varied disciplines of science, technology and health care.

Indian Journal of Pure & Applied Physics

Updated and enhanced with numerous worked-out examples and exercises, this Second Edition continues to present a thorough, concise and accurate discussion of fundamentals and principles of thermodynamics. It focuses on practical applications of theory and equips students with sound techniques for solving engineering problems. The treatment of the subject matter emphasizes the phenomena which are associated with the various thermodynamic processes. The topics covered are supported by an extensive set of example problems to enhance the student's understanding of the concepts introduced. The end-of-chapter problems serve to aid the learning process, and extend the material covered in the text

by including problems characteristic of engineering design. The book is designed to serve as a text for undergraduate engineering students for a course in thermodynamics.

The Worldwide List of Alternative Theories and Critics

The second international conference on Information Systems Design and Intelligent Applications (INDIA - 2015) held in Kalyani, India during January 8-9, 2015. The book covers all aspects of information system design, computer science and technology, general sciences, and educational research. Upon a double blind review process, a number of high quality papers are selected and collected in the book, which is composed of two different volumes, and covers a variety of topics, including natural language processing, artificial intelligence, security and privacy, communications, wireless and sensor networks, microelectronics, circuit and systems, machine learning, soft computing, mobile computing and applications, cloud computing, software engineering, graphics and image processing, rural engineering, e-commerce, e-governance, business computing, molecular computing, nano computing, chemical computing, intelligent computing for GIS and remote sensing, bio-informatics and bio-computing. These fields are not only limited to computer researchers but also include mathematics, chemistry, biology, bio-chemistry, engineering, statistics, and all others in which computer techniques may assist.

Layered 2D Materials and Their Allied Applications

Classical Mechanics beginning with the elementary principles introduces the generalised coordinates, Lagrangian formulation and Hamiltonian Formulation and the Central Force used for derivation of Kepler's laws of planetary motion. The topic on Small Oscillations is introduced and applied for a number of systems. Rotational motion for a Rigid-body and High speed (relativistic) motions are discussed under Special Relativity. Finally, the four vectors, four velocity, four momentum etc. are also discussed.

Neo-Classical Physics or Quantum Mechanics?

This book gathers selected research papers presented at the First International Conference on Embedded Systems and Artificial Intelligence (ESAI 2019), held at Sidi Mohamed Ben Abdellah University, Fez, Morocco, on 2–3 May 2019. Highlighting the latest innovations in Computer Science, Artificial Intelligence, Information Technologies, and Embedded Systems, the respective papers will encourage and inspire researchers, industry professionals, and policymakers to put these methods into practice.

Proceedings of the 5th International Conference on Frontiers in Intelligent Computing: Theory and Applications

Classical Mechanics

This volume contains 68 papers presented at SCI 2016: First International Conference on Smart Computing and Informatics. The conference was held during 3-4 March 2017, Visakhapatnam, India and organized communally by ANITS, Visakhapatnam and supported technically by CSI Division V - Education and Research and PRF, Vizag. This volume contains papers mainly focused on smart computing for cloud storage, data mining and software analysis, and image processing.

Smart Computing and Informatics

This book highlights state-of-the-art research on big data and the Internet of Things (IoT), along with related areas to ensure efficient and Internet-compatible IoT systems. It not only discusses big data security and privacy challenges, but also energy-efficient approaches to improving virtual machine placement in cloud computing environments. Big data and the Internet of Things (IoT) are ultimately two sides of the same coin, yet extracting, analyzing and managing IoT data poses a serious challenge.

Accordingly, proper analytics infrastructures/platforms should be used to analyze IoT data. Information technology (IT) allows people to upload, retrieve, store and collect information, which ultimately forms big data. The use of big data analytics has grown tremendously in just the past few years. At the same time, the IoT has entered the public consciousness, sparking people's imaginations

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as to what a fully connected world can offer. Further, the book discusses the analysis of real-time big data to derive actionable intelligence in enterprise applications in several domains, such as in industry and agriculture. It explores possible automated solutions in daily life, including structures for smart cities and automated home systems based on IoT technology, as well as health care systems that manage large amounts of data (big data) to improve clinical decisions. The book addresses the security and privacy of the IoT and big data technologies, while also revealing the impact of IoT technologies on several scenarios in smart cities design. Intended as a comprehensive introduction, it offers in-depth analysis and provides scientists, engineers and professionals the latest techniques, frameworks and strategies used in IoT and big data technologies.

Introduction to Classical Mechanics

In order to do business effectively in contemporary South Asia, it is necessary to understand the culture, the ethos, and the region's new trading communities. In tracing the modern-day evolution of business communities in India, this book uses social history to systematically document and understand India's new entrepreneurial groups.

Heroes and Philosophy

This volume contains 60 papers presented at ICTIS 2015: International Conference on Information and Communication Technology for Intelligent Systems.

The conference was held during 28th and 29th November, 2015, Ahmedabad, India and organized communally by Venus International College of Technology, Association of Computer Machinery, Ahmedabad Chapter and Supported by Computer Society of India Division IV – Communication and Division V – Education and Research. This volume contains papers mainly focused on ICT and its application for Intelligent Computing, Cloud Storage, Data Mining, Image Processing and Software Analysis etc.

Intelligent Computing and Communication

The first unauthorized look at the philosophy behind Heroes, one of TV's most popular shows When ordinary individuals from around the world inexplicably develop superhuman abilities, they question who they are, struggle to cope with new responsibilities, and decide whether to use their new power for good or for evil. Every episode of Tim Kring's hit TV show Heroes is a philosophical quandary. Heroes and Philosophy is the first book to analyze how philosophy makes this show so compelling. It lets you examine questions crucial to our existence as thinking, rational beings. Is the Company evil, or good? Does Hiro really have a destiny? Do we? Is it okay to lie in order to hide your powers or save the world? Heroes and Philosophy offers answers to these and other intriguing questions. Brings the insight of history's philosophical heavyweights such as Plato and Nietzsche to Heroes

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characters and settings Adds a fun and fascinating dimension to your understanding of the show Expands your thinking about Heroes as the series expands from graphic and text novels to action figures and a video game Whether you're new to Heroes or have been a fan since day one, this book will take your enjoyment of the show to the next level.

Indian Science Abstracts

There is an uncanny resemblance between Christianity in the middle ages and Physics in the twenty-first century. Formerly, the common man could neither read nor understand the scriptures, as they were written in Latin; the clergy had to interpret the scriptures for the laity with predictable results. Physics in the twenty-first century is similar. Only mathematicians with doctoral degree can understand the universe and how it works, to the rest of mankind the universe is an area of darkness. This is not by any means a desirable development. As human beings, we are all sentient individuals and as such are expected to enquire about our environment, the world around us, and the universe we live in. On a fundamental philosophical basis, it is wrong to believe that such knowledge, whether by circumstance or by design, is limited to a privileged few. This book explains the universe for the first time in a way that is comprehensible to everyone. Neo-classical physics undertakes the study of the behaviour of the universe as an entity, and the physics of sub-atomic particles is easy to understand in everyday terms. Neo-classical physics is the language that sets you free - free to

see, free to comprehend and free to wonder anew.

A Textbook Of Statistical Mechanics (hb)

The book is a collection of high-quality peer-reviewed research papers presented at International Conference on Frontiers of Intelligent Computing: Theory and applications (FICTA 2016) held at School of Computer Engineering, KIIT University, Bhubaneswar, India during 16 - 17 September 2016. The book presents theories, methodologies, new ideas, experiences and applications in all areas of intelligent computing and its applications to various engineering disciplines like computer science, electronics, electrical and mechanical engineering.

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