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 Learning
 "Microbiology
 covers the
 scope and

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 for a single-
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 course for
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 The book
 presents the
 core concepts
 of
 microbiology

with a focus
 on
 applications
 for careers in
 allied health.
 The
 pedagogical
 features of the
 text make the
 material
 interesting
 and accessible

while maintaining the career-application focus and scientific rigor inherent in the subject matter. Microbiology's art program enhances students' understanding of concepts through clear and effective illustrations, diagrams, and photographs. Microbiology is produced through a collaborative publishing agreement between OpenStax and the American Society for Microbiology Press. The

book aligns with the curriculum guidelines of the American Society for Microbiology." --BC Campus website. Heat and Thermodynamics S. Chand Publishing This book covers the entire syllabus of FYBSc Semester II. New course of Savitribai Phule Pune University, Pune effective from June 2019 onwards. This book has been written to fulfill the basic concepts. Some of the features of the

book are observation, perception, analysis, critical thinking and understand the relationship between culture and Human society.

PRACTICAL COURSE IN PHYSICS S.

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to ODE, PDE, Transforms and more. Emphasizes intuition and computational abilities. Expands the material on DE and multiple integrals. Focuses on the applied side, exploring material that is relevant to physics and engineering. Explains each concept in clear, easy-to-understand steps About The Book: The book provides a comprehensive introduction to the areas of mathematical physics. It

combines all the essential math concepts into one compact, clearly written reference. This book helps readers gain a solid foundation in the many areas of mathematical methods in order to achieve a basic competence in advanced physics, chemistry, and engineering. *Modern Physics* Bookboon The book entitled, "Electricity and Magnetism"

is written in a simple and lucid language as possible. It will be helpful for understanding of Electrostatics, Dielectrics, Magnetization, Magnetostatics and Magnetic Properties of Materials. Multiple choice questions and true and false type questions are also added which are useful for competitive exam. The content included in the section will surely increase problem

<p>solving skills. <u>Principles, Devices and Applications</u> PRACTICAL COURSE IN PHYSICS The standard of the book is maintained keeping the level of First Year B.Sc. course in terms of the steps required for performing the experiments. However the format of procedures to perform the experiment, observation tables, theory, viva-voce questionires etc. are provided wherever it is necessary for</p>	<p>deep understanding . Utmost care has been taken to explain the steps for performing practicals with illustrative figures and circuit diagrams used where absolutely required. ATOMIC AND MOLECULAR PHYSICS The problems are judiciously selected and are given topic and section-wise. The approach is straight forward and step-by step solutions are elaborately provided.</p>	<p>More importantly the relevant formulas used for solving the problems can be located in the beginning of each chapter. There are number of diagrams for illustration. Chapter 1 in the book is devoted to Atomic Structure. Chapter 2 is basically concerned One Valence Electron Systems. Chapter 3 is concerned with Two Valence Electron Systems. Chapter 4 is basically</p>
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related to Zeeman Effect. Chapter 5 is related to X-Ray Spectroscopy. Chapter 6 is concerned with Molecular Spectroscopy and Chapter 7 dealt with Raman Spectroscopy. Mathematical Methods in the Physical Sciences

This book "Plant Life and Utilization-II for Semester II, Paper I is written strictly as per the new syllabus by referring the standard reference books. So that the students will be able to understand the subject very easily. This will make their concepts very clear.

INSTRUMENTAL SYSTEMS (2 Credits)
Electronics (For Computer Science) S. Chand Publishing

Introduction - Conduction - Convection - Radiation - Heat Exchange Equipments - Evaporation - Diffusion - Distillation - Gas Absorption - Liquid Liquid Extraction - Crystallisation - Drying - Appendix I Try yourself - Appendix II Thermal conductivity data - Appendix III Steam tables

Nanotechnology: Principles and Practices
John Wiley & Sons

For B.Sc 3rd year students of all Indian Universities. The book has been prepared keeping view the syllabi prepared by different universities on the basis of Model UGC Curriculum. A large number of illustrations, pictures and interesting

examples have been provided to make the reading interesting and understandable. The question that have been provided in the Exercise are in tune with the latest pattern of examination. [Encyclopedia of Library and Information Science](#) CRC Press
The professional's one-stop guide to this open-source, Java-based big data framework Professional Hadoop is the

complete reference and resource for experienced developers looking to employ Apache Hadoop in real-world settings. Written by an expert team of certified Hadoop developers, committers, and Summit speakers, this book details every key aspect of Hadoop technology to enable optimal processing of large data sets. Designed expressly for the professional

developer, this book skips over the basics of database development to get you acquainted with the framework's processes and capabilities right away. The discussion covers each key Hadoop component individually, culminating in a sample application that brings all of the pieces together to illustrate the cooperation and interplay that make Hadoop a major big data solution. Coverage

includes everything from storage and security to computing and user experience, with expert guidance on integrating other software and more. Hadoop is quickly reaching significant market usage, and more and more developers are being called upon to develop big data solutions using the Hadoop framework. This book covers the process from beginning to end, providing

a crash course for professionals needing to learn and apply Hadoop quickly. Configure storage, UE, and in-memory computing. Integrate Hadoop with other programs including Kafka and Storm Master the fundamentals of Apache Big Top and Ignite Build robust data security with expert tips and advice Hadoop's popularity is largely due to its

accessibility. Open-source and written in Java, the framework offers almost no barrier to entry for experienced database developers already familiar with the skills and requirements real-world programming entails. Professional Hadoop gives you the practical information and framework-specific skills you need quickly.

**Environment
al Biology
And
Toxicology**

<p>Nirali Prakashan This text book has been prepared keeping in mind the need of subject and syllabus specified by SPPU. The First chapter describes the instrumentatio n system, sensors, transducers and their specifications. In Second chapter, types of sensors such as temperature sensor, optical sensor, PIR sensor, ultrasonic sensor, image sensor are discussed in detail. Types</p>	<p>of actuators such as DC motor and stepper motor are also described in this chapter. McGraw-Hill Science, Engineering & Mathematics 1 Environmental biology 2 The ecosystem 3 Environmental pollution 4 Environment and development 5 Natural resources and conversation 6 Wildlife management 7 Toxicants and toxicity 8 Toxicants of public health and hazards <u>PHYSICS OF NANOMATERIA</u></p>	<p><u>LS</u> Nirali Prakashan The standard of the book is maintained keeping the level of First Year B.Sc. course in terms of the steps required for performing the experiments. However the format of procedures to perform the experiment, observation tables, theory, viva-voce questionires etc. are provided wherever it is necessary for deep understanding . Utmost care has been taken to</p>
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explain the steps for performing practicals with illustrative figures and circuit diagrams used where absolutely required.

Fundamentals of Electricity and Magnetism

John Wiley & Sons
 Accessible and flexible,
 MODERN PHYSICS, Third Edition has been specifically designed to provide simple, clear, and mathematical y uncomplicated

explanations of physical concepts and theories of modern physics. The authors clarify and show support for these theories through a broad range of current applications and examples- attempting to answer questions such as: What holds molecules together? How do electrons tunnel through barriers? How do electrons move through solids? How can currents persist indefinitely in

superconducto rs? To pique student interest, brief sketches of the historical development of twentieth-century physics such as anecdotes and quotations from key figures as well as interesting photographs of noted scientists and original apparatus are integrated throughout. The Third Edition has been extensively revised to clarify difficult concepts and thoroughly updated to

include rapidly developing technical applications in quantum physics. To complement the analytical solutions in the text and to help students visualize abstract concepts, the new edition also features free online access to QMTools, new platform-independent simulation software created by co-author, Curt Moyer, and developed with support from the National Science Foundation. Icons in the text indicate the problems designed for use with the software. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

Surface Chemistry and Catalysis MDPI "The Encyclopedia of Library and Information Science provides an outstanding resource in 33 published volumes with 2 helpful indexes. This thorough reference set--written by 1300 eminent, international experts--offers librarians, information/computer scientists, bibliographers, documentalists, systems analysts, and students, convenient access to the techniques and tools of both library and information science. Impeccably researched, cross referenced, alphabetized by subject,

and generously illustrated, the Encyclopedia of Library and Information Science integrates the essential theoretical and practical information accumulating in this rapidly growing field." *Paper-II* John Wiley & Sons
PRACTICAL COURSE IN PHYSICS
Probability and Statistics
 Springer Science & Business Media
 1 Carbanions and their reactions
 2 Retrosynthetic Analysis and applications
 3

Rearrangeme nt Reactions
 4 Spectroscopic Methods in structure determination of organic compounds
 5 Natural products
Microbiology
 Tata McGraw-Hill Education
 The fundamentals and implementation of digital electronics are essential to understanding the design and working of consumer/industrial electronics, communications, embedded systems, computers, security and military

equipment. Devices used in applications such as these are constantly decreasing in size and employing more complex technology. It is therefore essential for engineers and students to understand the fundamentals, implementation and application principles of digital electronics, devices and integrated circuits. This is so that they can use the most appropriate and effective technique to

suit their technical need. This book provides practical and comprehensive coverage of digital electronics, bringing together information on fundamental theory, operational aspects and potential applications. With worked problems, examples, and review questions for each chapter, Digital Electronics includes: information on number systems, binary codes, digital

arithmetic, logic gates and families, and Boolean algebra; an in-depth look at multiplexers, demultiplexers, devices for arithmetic operations, flip-flops and related devices, counters and registers, and data conversion circuits; up-to-date coverage of recent application fields, such as programmable logic devices, microprocessors, microcontrollers, digital troubleshooting and digital

instrumentation. A comprehensive, must-read book on digital electronics for senior undergraduate and graduate students of electrical, electronics and computer engineering, and a valuable reference book for professionals and researchers. *Theory And Problems Of Differential Equations (Schaum S Outline Series)* Macmillan Given the rapid advances in the field, this

book offers an up-to-date introduction to nanomaterials and nanotechnology. Though condensed into a relatively small volume, it spans the whole range of multidisciplinary topics related to nanotechnology. Starting with the basic concepts of quantum mechanics and solid state physics, it presents both physical and chemical synthetic methods, as well as analytical techniques for studying nanostructures. The size-specific properties of nanomaterials, such as their thermal, mechanical, optical and magnetic characteristics, are discussed in detail. The book goes on to illustrate the various applications of nanomaterials in electronics, optoelectronics, cosmetics, energy, textiles and the medical field and discusses the environmental impact of these technologies. Many new areas, materials and effects are then introduced, including spintronics, soft lithography, metamaterials, the lotus effect, the Gecko effect and graphene. The book also explains the functional principles of essential techniques, such as scanning tunneling microscopy (STM), atomic force microscopy (AFM), scanning near field optical

microscopy (SNOM), Raman spectroscopy and photoelectron microscopy. In closing, Chapter 14, 'Practicals', provides a helpful guide to setting up and conducting inexpensive nanotechnology experiments in teaching laboratories.

Pharmacognosy S. Chand Publishing
This book is a printed edition of the Special Issue "Surface Chemistry and Catalysis" that was published in *Catalysts*

The Science of Uncertainty
Pragati Books Pvt. Ltd.
This book envisages the revised syllabus. The main objectives of book are to introduce the basic physics behind size, effect of nanomaterials and to understand the working principle of equipments used in nanostructures. Students and teachers will gain knowledge of nanomaterials, their properties, their applications,

and various growth techniques. Authors have also discussed tools like UV, XRD, SEM and TEM to characterize the nanomaterials. The general impression of physics students is that nanophysics is very difficult. Hence the theory of nanomaterials is prescribed in a simple and lucid manner with the help of neat and clear diagrams.

Mathematical Methods in the Physical Sciences

Springer
 Unlike traditional introductory math/stat textbooks, Probability and Statistics: The Science of Uncertainty brings a modern flavor based on incorporating the computer to the course and an integrated approach to inference. From the start the book integrates simulations into its theoretical coverage, and emphasizes the use of computer-powered computation throughout.* Math and science majors with just one year of calculus can use this text and experience a refreshing blend of applications and theory that goes beyond merely mastering the technicalities. They'll get a thorough grounding in probability theory, and go beyond that to the theory of statistical inference and its applications. An integrated approach to inference is presented that includes the frequency approach as well as Bayesian methodology. Bayesian inference is developed as a logical extension of likelihood methods. A separate chapter is devoted to the important topic of model checking and this is applied in the context of the standard applied statistical techniques. Examples of data analyses using real-world data are presented

throughout the text. A final chapter introduces a number of the most important stochastic process models using elementary methods.	*Note: An appendix in the book contains Minitab code for more involved computations. The code can be used by students as	templates for their own calculations. If a software package like Minitab is used with the course then no programming is required by the students.
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