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For B.Sc I yr students as per the new syllabus of UGC curriculum for all Indian Universities. The present book has two sections. Section I covers 1 which includes chapters on Mechanics, oscillations and Properties of Matter. Section II covers course 2 which includes chapters on Electricity, Magnetism and Electromagnetic theory.

"Margaret Cargill's background as a linguist and research communications educator and Patrick O'Connor's experience as both research scientist and educator synergize to improve both the science and art of scientific writing. If the authors' goal is to give scientists the tools to write and publish compelling, well documented, clear narratives that convey their work honestly and in proper context, they have succeeded admirably." *Veterinary Pathology*, July 2009 "[The book is] clearly written, has a logical step-by-step structure, is easy to read and contains a lot of sensible advice about how to get scientific work published in international journals. The book is a most useful addition to the literature covering scientific writing." *Aquaculture International*, April 2009 *Writing Scientific Research Articles: Strategy and Steps* guides authors in how to write, as well as what to write, to improve their chances of having their articles accepted for publication in

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international, peer reviewed journals. The book is designed for scientists who use English as a first or an additional language; for research students and those who teach them paper writing skills; and for early-career researchers wanting to hone their skills as authors and mentors. It provides clear processes for selecting target journals and writing each section of a manuscript, starting with the results. The stepwise learning process uses practical exercises to develop writing and data presentation skills through analysis of well-written example papers. Strategies are presented for responding to referee comments, as well as ideas for developing discipline-specific English language skills for manuscript writing. The book is designed for use by individuals or in a class setting. Visit the companion site at www.writeresearch.com.au for more information. This book is a collection of papers from international experts presented at International Conference on NextGen Electronic Technologies (ICNETS2-2016). ICNETS2 encompassed six symposia covering all aspects of electronics and communications domains, including relevant nano/micro materials and devices. Presenting recent research on wireless communication networks and Internet of Things, the book will prove useful to researchers, professionals and students working in the core areas of electronics and their applications, especially in signal processing, embedded systems and networking.

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India's explosive economic growth and emerging power status make it a key country of interest for policymakers, researchers and scholars within South Asia and around the world. But while many of India's threats and conflicts are strategized and discussed extensively within the confines of security studies, strategic studies and conventional international relations perspectives, many less visible challenges are set to impact significantly on India's potential for economic growth as well as the human security and livelihoods of hundreds of millions of Indian citizens. Drawing on extensive research within India, this book looks at some of the 'hidden risks' that India faces, exploring how a broadened scope of what constitutes 'risk' itself holds value for Indian security studies practitioners and policymakers. It highlights several human security risks facing India, including the inability of the world's largest democracy to deal effectively with widespread poverty and health issues, resource depletion and environmental mismanagement, pervasive corruption and institutionalized crime, communal violence, a protracted Maoist insurgency, and deadlocked peace processes in the Northeast among others. The book extracts common themes from these seemingly disparate problems, discussing what underlying failures allow them to persist and why policymakers heavily securitize some political issues while ignoring others. Providing an understanding of how several

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lesser-studied risks can pose potential or actual threats to Indian society and its 'emerging power' growth narrative, this book is a useful contribution to South Asian Studies, International Security Studies and Global Politics.

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

1 Carbanions and their reactions
2 Retrosynthetic Analysis and applications
3 Rearrangement Reactions
4 Spectroscopic Methods in structure determination of organic compounds
5 Natural products

Produced for unit MBA882 (Business economics 2) offered by the School of Management in Deakin University's Open Campus Program for the Master of Business Administration.

This book has developed from courses given by the authors and probably contains more material than will ordinarily be covered in a one-year course. It is hoped that the book will be a useful text in the application of differential equations as well as for the pure mathematician. Prerequisite for this book is a knowledge of matrices and the essentials of

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functions in a complex variable. The book thoroughly addresses linear equations, and touches on the use of the Riemann-Stieltjes integral, and the Lebesgue integral, and the theorems required from integration theory. The problems, in some cases, give additional material not considered in the text.

This book is based on a course Graph theory. We write this book as per the revised syllabus of F.Y. B.Sc.(Computer Science) Mathematics, revised by Savitribai Phule Pune University, Pune, implemented from June 2019. Graph theory is the most useful subject in all branches of mathematics and it is used extensively in applied mathematics and engineering. Graphs theory is the study of graphs, which are mathematical structures used to model pairwise relations between objects. It is a bridge connecting mathematics with various branches of computer science. We study how problems in almost every conceivable discipline can be solved using graph models.

The book encompasses a wide range of topics on practical geography taught to the B.A./B.Sc. students of Indian universities. Numerous examples and diagrams have been included in the text with the sole aim of enabling the students to have a comprehensive grasp of the subject. Attempt has also been made to present a well-balanced treatment of each topic. Topics like measurement of ground areas from maps, determination of class-

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interval for choropleth maps, representation of agricultural, industrial and transport data, choice of map projections, interpretation of topo-sheets, etc., have been included in this book and discussed in detail. Books treating various aspects of practical geography need regular up-dates. Therefore, the latest available material has been used to update this edition. Guidance of learned college and university teachers has enabled the author to present the subject-matter clearly and accurately. It is hoped that in addition to developing a keen interest for practical geography, it will form the basis for a more advanced study of the subject among the students.

A comprehensive text based on the results of a scientific analysis of the communication needs of professionals.

Read People Like a Book--7 ESSENTIAL SKILLS for getting exactly what you want The most important 90% of communication is nonverbal. It's silent--but not hidden. It's instinctual--but you can control it.

This book shows you how. You'll learn how to: *

Read the nonverbal signs that tell you exactly what people are thinking, feeling, and planning. * Control your own nonverbal communication so you deliver the right message and get the right results. *

Decipher gestures and read minds. * Stop sending signals that undercut your words. * Communicate more successfully with friends, family, colleagues,

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customers, strangers...everyone! Are you trustworthy? Likable? Interesting? Are you the right person to hire? To buy from? People start judging you the instant they meet you--and they never stop. You do the same for them. Based on what? Not just words: 90% of the information people present about themselves is nonverbal. Body Language is about understanding that 90%--and making the most of it. It's about learning to consciously read the silent messages other people are sending...so you know what they're really feeling, thinking, and intending to do. It's about learning to control your own body language so that you communicate more powerfully and successfully with everyone in your life. Need an edge? Ever worry that you're not getting your message across? Then these are the most important communication skills you will ever learn. * Recognize lies, fears, and how people are responding to you Sharpen your intuitions and perceptions and use them to communicate more effectively * Overcome bad body language habits that convey the wrong impression Stop making the innocent mistakes that turn people off * Read people through "context, congruence, and clusters" Use body language together with everything else you know, hear, and see * Gain the charisma that comes with effective listening People want to be heard--learn how to give them what they want

This volume provides an introduction to medicinal chemistry.

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It covers basic principles and background, and describes the general tactics and strategies involved in developing an effective drug.

1 Gravimetric Analysis 2 Thermal Methods of Analysis 3 Spectrophotometry 4 polaography 5 Atomic Absorption Spectroscopy

Note: This is the 3rd edition. If you need the 2nd edition for a course you are taking, it can be found as a "other format" on amazon, or by searching its isbn: 1534970746 This gentle introduction to discrete mathematics is written for first and second year math majors, especially those who intend to teach. The text began as a set of lecture notes for the discrete mathematics course at the University of Northern Colorado. This course serves both as an introduction to topics in discrete math and as the "introduction to proof" course for math majors. The course is usually taught with a large amount of student inquiry, and this text is written to help facilitate this. Four main topics are covered: counting, sequences, logic, and graph theory. Along the way proofs are introduced, including proofs by contradiction, proofs by induction, and combinatorial proofs. The book contains over 470 exercises, including 275 with solutions and over 100 with hints. There are also Investigate! activities throughout the text to support active, inquiry based learning. While there are many fine discrete math textbooks available, this text has the following advantages: It is written to be used in an inquiry rich course. It is written to be used in a course for future math teachers. It is open source, with low cost print editions and free electronic editions. This third edition brings improved exposition, a new section on trees, and a bunch of new and improved exercises. For a complete list of changes, and to view the free electronic version of the text, visit the book's website at discrete.openmathbooks.org

Biodiversity is among the richest treasures of the earth.

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Despite their small size, microbes play a vital role in environmental monitoring and making the earth sustainable. Microorganisms preserve and assist plants and animals either directly or indirectly, and, due to their omnipresence in nature, they inhabit conditions such as extreme temperatures, water, soil, salt, medical wastes, agricultural wastes, and air. Microbes are also important in human culture and play an essential role in existence of life. They are present in food fermentation, sewage treatment, medical, agricultural, and soil waste, antibiotics, soil fertility, model organisms, and human microbiota, aid with decomposition, and are responsible for infectious diseases. This volume represents an important contribution to the field, highlighting the importance of microbial biodiversity to society.

The subject matter is profusely illustrated with a number of clear and labelled diagrams. We sincerely feel that this book will fulfill the requirements of the students as well as teachers. While preparing this book several standard reference books and text books have been consulted. Emphasis has been laid on furnishing maximum information required for students in a simple and lucid language. Zoology is an interesting subject because the animal world is full of diversity, adaptations, habits and habitats and behaviour.

Numerical Methods has been specifically written to serve as a textbook for mathematics, science and engineering students of all disciplines. The text covers all major aspects of numerical methods, including numerical computations, matrices and linear system of equations, solution of algebraic and transcendental equations, finite differences and interpolation, curve fitting, correlation and regression, numerical differentiation and integration, and numerical solution of ordinary differential equations. The book maintains a student-friendly approach and numerical problem solving orientation. Presentations are limited to very basic topics to

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serve as an introduction to advanced topics in those areas of discipline. The purpose of the book is to present the principle and concepts of numerical methods as relevant to student learning. The numerous worked examples and unsolved exercise problems are intended to provide the reader with an awareness of the general applicability of principles and concepts of numerical methods. An extensive bibliography to guide the student to further sources of information on numerical methods topics covered in this book is provided at the end of the book. Answers to all end-of-chapter problems are given at the end of the book.

In this expert handbook both the topics and contributors are selected so as to provide an authoritative view of possible applications for this new technology. The result is an up-to-date survey of current challenges and opportunities in the design and operation of bioreactors for high-value products in the biomedical and chemical industries. Combining theory and practice, the authors explain such leading-edge technologies as single-use bioreactors, bioreactor simulators, and soft sensor monitoring, and discuss novel applications, such as stem cell production, process development, and multi-product reactors, using case studies from academia as well as from industry. A final section addresses the latest trends, including culture media design and systems biotechnology, which are expected to have an increasing impact on bioreactor design. With its focus on cutting-edge technologies and discussions of future developments, this handbook will remain an invaluable reference for many years to come.

This book is written strictly according to the new revised syllabus of Savitribai Phule Pune University to be

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implemented from June 2019. We have taken utmost care to present the matter systematically and with proper flow of mathematical concepts. We begin the Chapter by Introduction and at the end the Summary of the Chapter is provided. We have added one significant feature: ""Think Over It"" in this new edition.

Presents the principles and trends in the taxonomy of angiosperms. This book places stress on the definitions, methodology and concepts of taxonomy. It compares various systems of classifications and explains intricate rules of plant nomenclature. It provides information on important herbaria and botanical gardens of the world. This is the first book on bacterial systematics at the undergraduate level. The first part explains why bacteria are classified and how they are named. It also covers the practice of classification, including evolutionary studies and identification. The applications of these methods are illustrated in the second part of the book, which describes progress in the classification and identification of the spirochaetes, helical and curved bacteria, Gram-negative aerobic, facultative and strictly anaerobic bacteria, Gram-positive cocci, rods and endospore formers, mycoplasmas, and actinomycetes, and outlines the importance of these organisms. The first book on this topic at undergraduate level Includes evolutionary studies and the Archaea Covers theory and practice of bacterial classification and identification User-friendly style and profuse illustrations

Revised edition of this handbook, written by an author in the field of recruitment, training and management.

This text maintains the tradition established in previous

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volumes in that it is catered both to the educational public and the university student, providing fresh research and valuable information concerning relevant topics from social and educational backgrounds. Authored by a selected group of experts, members of the Human Development research group, the essays investigate key topics such as leadership, arts, education, pedagogy, linguistics, psychology and sports. The contributors, based at the Catholic University of Murcia, Spain, consider a number of social issues and challenges pertinent to, and present in, contemporary life.

Sports medicine, also known as sport and exercise medicine (SEM), is a branch of medicine that deals with physical fitness and the treatment and prevention of injuries related to sports and exercise. Although most sports teams have employed team physicians for many years, it is only since the late 20th century that sports medicine has emerged as a distinct field of health care. Athletic Therapy is the prevention, immediate care and rehabilitation of musculoskeletal injuries by a Certified Athletic Therapist. It involves the assessment of physical function, the treatment of dysfunction caused by pain and/or injury in order to develop, maintain and maximize independence and prevent dysfunction. User groups of this service are varied and can include but are not limited to people with a musculoskeletal injury that may be active individuals, injured workers, motor vehicle accident injuries, recreational athletes, professional athletes and competitive amateur athletes. The concept for this book is based on the expanding field of sports

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rehabilitation and injury prevention. Evidence of this expansion includes an increasing amount of research and publications related to sports rehabilitation and allied fields of practice such as sports therapy, athletic training and sports physiotherapy. This book allows you to apply high- level academic and practical management skills to the diagnosis, treatment and rehabilitation of musculoskeletal injuries arising from sport and physical activity. You will learn to improve health and function in populations with injury, illness and disease and to positively contribute to improving public health. You will be taught by industry experts with the focus on practical skills and small group practical sessions.

Genetics and Biotechnology
Springer Science & Business Media

Water bodies on all the four sides surround the globe, yet we face water shortage in most nations! In our country too, not only the per capita water availability is falling drastically, even the quality of available water is also fast deteriorating. Over-extraction of ground water has further led to many problems. So, there is a pressing need to educate the common man about the importance of effective management of water resources. Geography of Water Resources fulfils this need. This book has been introduced in the syllabus of universities and colleges in India as well as all over the world. However, much information concerning the water resources management lies scattered in various research publications, which are beyond the reach of common man. The book, therefore, presents a comprehensive, well-illustrated and documented account of the issues concerning water

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resources management. In this, various aspects of the scientific management of water resources, such as their worldwide distribution and circulation through all spheres of earth, water quality and its uses, irrigation methods, floods, droughts, watershed management, traditional water harvesting techniques, water ethics, etc., have been discussed. It is hoped that the book will be of immense help not only to students, researchers, analysts, commentators, academicians and policy makers, but also for those appearing in various competitive examinations.

The text material has been restructured to provide a more balanced and exhaustive coverage of the subject. The text discusses the core concepts of technical communication and explains them with the help of numerous examples and practice exercises. The book also provides support for soft skills laboratory sessions through a companion CD. With its in-depth coverage and practical orientation, the book is useful not only for students, but also as a reference material for corporate training programmes.

A Clear And Reliable Guide To Students Of Practical Organic Chemistry At The Undergraduate And Postgraduate Levels. This Edition S Special Emphasis Is On Semi Micro Methods And Modern Techniques And Reactions.

Since publication of the first edition of Volume II in 1995, several developments in fungal molecular biology - such as fungal genome projects - have progressed tremendously. This in turn has affected fundamental genetics as well as biotechnology. To accommodate

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these developments, the second edition has been completely updated and all chapters have been revised. In addition, the volume contains five new chapters dealing with different aspects of fungal molecular genetics. Topics include: Nuclear and extranuclear genetics; functional genomics; biotechnical genetics; yeasts and filamentous fungi.

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