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# Pdf Swapan Kumar Sarkar

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Discrete Mathematics

A Textbook of Engineering Physics

Discrete Mathematics for Computer Scientists

Introduction to Mineralogy and Petrology

Rasayana

Sociological Theory Beyond the Canon

Mathematics for Computing

Biotechnology to Combat COVID-19

Ionic Liquid-Based Surfactant Science

Social Transformation - Digital Way

Dhorai Charit Manas

Mathematics for Degree Students (For B.Sc. Second Year)

Breeding and Biotechnology of Tea and its Wild Species

Bioresource Utilization and Management

My Life with Prof. Benoy Kumar Sarkar

Business and Consumer Analytics: New Ideas

Mineral Exploration

Regulating Cartels in India

COMBINATORICS AND GRAPH THEORY

Struggle for India's Freedom: Defeat of Netaji's Dream

Ordinary and Partial Differential Equations

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AUDITING

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Renaissance Themes

Reading Subaltern Studies

Computer Fundamentals

TRANSPORTATION PLANNING : PRINCIPLES, PRACTICES AND POLICIES

Discrete Mathematical Structures with Applications to Computer Science

Hydrogen Bonding and Transfer in the Excited State

Refractory Technology

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A Textbook of Discrete Mathematics  
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## **SANTOS RIYA**

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**Discrete Mathematics** Springer  
Science & Business Media

This book explains the refractories from different fundamental aspects, even with the support of phase diagrams, and also details the prominent applications of these industrial materials. The initial chapters cover fundamentals of refractories, classifications, properties, and testing, while later chapters describe different common shaped and unshaped refractories in detail and

special refractories in a concise manner. The second edition includes new classifications, microstructures, the effect of impurities with binary and ternary phase diagrams, and recent trends in refractories including homework problems and an updated bibliography. Features: Provides exclusive material on refractories Discusses detailed descriptions of different shaped and unshaped refractories Covers concepts like environmental issues, recycling, and nanotechnology Explores details on testing and specifications including thermochemical and corrosion behavior

Includes a separate chapter on trends of refractories and other issues This book is aimed at junior/senior undergraduate students and researchers of ceramics, metallurgical engineering, and refractories.

*A Textbook of Engineering Physics*  
Cengage Learning

Note: This is a custom edition of Levin's full Discrete Mathematics text, arranged specifically for use in a discrete math course for future elementary and middle school teachers. (It is NOT a new and updated edition of the main text.) 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. 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.

**Discrete Mathematics for Computer Scientists** McGraw-Hill Companies

This comprehensive, well-received and thoroughly updated text, now in its Third Edition, continues to provide an in-depth analysis of the basic concepts of Auditing emphasising the practical aspects of the course. The book discusses in detail, classification and preparation of an audit, internal control system, internal audit, vouching of cash, trading and impersonal ledgers in addition to other topics. Besides, it deals with verification and valuation of assets and liabilities, company audit, cost audit, management audit, tax audit, bank audit as well as depreciation. The final chapters of the book give detailed description of business investigations,

audit of special entities and auditing in EDP environment. Contemporary topics have been covered in the book to enlighten readers with the latest developments in the field of auditing, such as cost audit, tax audit, environmental audit and energy audit. The book is intended to serve as an indispensable text for undergraduate students of commerce as well as for CA and ICWA aspirants. New to this Edition • The Companies Act, 2013 (based on new company law). • Internal Audit chapter especially updated in the light of Section 138 of the Companies Act, 2013 and Rule 13 of the Companies (Accounts) Rules, 2014 notified by MCA. • Cost Audit chapter based on the latest Companies (Cost Records and Audit) Rules, 2014, issued by MCA.

### Introduction to Mineralogy and Petrology

CRC Press

This volume will be summarized on the basis of the topics of Ionic Liquids in the form of chapters and sections. It would be emphasized on the synthesis of ILs of different types, and stabilization of amphiphilic self-assemblies in conventional and newly developed ILs to reveal formulation, physicochemical properties, microstructures, internal dynamics, thermodynamics as well as new possible applications. It covers: Topics of ionic liquid assisted micelles and microemulsions in relation to their fundamental characteristics and theories Development bio-ionic liquids or greener, environment-friendly solvents, and manifold interesting and promising applications of ionic liquid based

micelles and micremulsions

**Rasayana** John Wiley & Sons

In recent years, the most important and influential change in the historiography of South Asia, and particularly India, has been brought about by the globally renowned 'Subaltern Studies' project that began 20 years ago. The present volume of critiques and readings of the project represents the first comprehensive historical introduction to Subaltern Studies and the worldwide debates it has generated among scholars of history, politics and sociology. The volume provides a reliable point of departure for new readers of Subaltern Studies and a resource base for experienced readers, who want to revive critical debates. In his introduction, David Ludden traces the

intellectual history of subalternity and analyses trends in the globalization of academic discourse that account for the changing character of Subaltern Studies as well as for the shifting debates around it. In doing so, he expands the field of discussion well beyond Subaltern Studies into broader problems of historical research methodology in the study of subordinate people and into problems of writing contemporary intellectual history. The book thus provides a general readers' guide to techniques for critical historical reading. It uses Subaltern Studies to indicate how readers can read themselves, their context, the text, the author, the author's sources and the subject of study into a single, contentious field of historical analysis.

### Sociological Theory Beyond the Canon Elsevier

Arun Kumar Das Gupta taught English literature for over 40 years, first at Presidency College, Kolkata, and then at the University of Calcutta. His interpretations of Western literature and thought, particularly of the Renaissance, shaped a whole generation of students. Some of them have produced this volume of essays in tribute to their mentor. Two essays directly address the intellectual milieu of the European Renaissance. Sukanta Chaudhuri examines the unusual merger of modes and registers in Renaissance philosophic discourse, while Niranjan Goswami looks at a particular example of Ramist practice. The other pieces relate to English writers and works, notably

Shakespeare and Milton, in a wider perspective of Renaissance concerns and general critical issues. Abhijit Sen analyses the stage and verbal imagery in Macbeth. Supriya Chaudhuri and Paromita Chakraborty take King Lear as their point of departure. Chaudhuri brings out the full conceptual implications of the Dover Cliff scene, while Chakraborty dissects the play's sexual imagery. Swapan Chakravorty takes in a wide range of dramatic and non-dramatic texts in his survey of reading on the Early Modern stage. Amlan Das Gupta studies the Miltonic simile, specifically in Paradise Lost Book IV. Finally, Malabika Sarkar reads Samson Agonistes in a context of magic and alchemy to draw out some implications deeply relevant at the

present time.

*Mathematics for Computing* PHI Learning Pvt. Ltd.

This book constitutes the refereed proceedings of the 52nd Annual Convention of the Computer Society of India, CSI 2017, held in Kolkata, India, in January 2018. The 59 revised papers presented were carefully reviewed and selected from 157 submissions. The theme of CSI 2017, Social Transformation – Digital Way, was selected to highlight the importance of technology for both central and state governments at their respective levels to achieve doorstep connectivity with its citizens. The papers are organized in the following topical sections: Signal processing, microwave and communication engineering; circuits and



systems; data science and data analytics; bio computing; social computing; mobile, nano, quantum computing; data mining; security and forensics; digital image processing; and computational intelligence.

*Biotechnology to Combat COVID-19* New Age International

Provides computer science students with a foundation in discrete mathematics using relevant computer science applications.

Ionic Liquid-Based Surfactant Science  
CRC Press

From the participation of researchers in most important international conferences in the field, it is noted that activities in automatic document processing have been continuously growing. This book is an edited volume

in Digital Document Processing where the chapters are written by several internationally renowned researchers in the domain. It will be useful for both students and researchers working on various aspects of document image analysis and recognition problems. It contains chapters on topics that are not covered by any textbook, but are more futuristic like “Going beyond the Myth of Paperlessness”, or interesting application areas like “The Role of Document Image Analysis in Trustworthy Elections” as well as “Word Recognition for Museum Index Cards with SNT-Grid”. Persons developing document analysis software for industry may also find the chapters useful and attractive. The language of the chapters is simple and clear, along with drawings/diagrams

wherever necessary. An adequate number of references are given at the end of each chapter. Overall, the book is highly readable and will be an asset to the community. Renowned contributors include George Nagy, Hiromichi Fujisawa, F Kimura, D Lopresti, Chew Lim Tan, S Uchida, Thierry Paquet, Laurent Heutte, V Govindaraju, R Manmatha.

### **Social Transformation - Digital Way**

Cengage Learning

Discrete Mathematics and Applications, Second Edition is intended for a one-semester course in discrete mathematics. Such a course is typically taken by mathematics, mathematics education, and computer science majors, usually in their sophomore year. Calculus is not a prerequisite to use this book. Part one focuses on how to write proofs,

then moves on to topics in number theory, employing set theory in the process. Part two focuses on computations, combinatorics, graph theory, trees, and algorithms. Emphasizes proofs, which will appeal to a subset of this course market Links examples to exercise sets Offers edition that has been heavily reviewed and developed Focuses on graph theory Covers trees and algorithms [Dhorai Charit Manas](#) World Scientific This book has been designed for Undergraduate (Honours) and Postgraduate students of various Indian Universities. A set of objective problems has been provided at the end of each chapter which will be useful to the aspirants of competitive examinations *Mathematics for Degree Students (For*

*B.Sc. Second Year)* Createspace Independent Publishing Platform Introduction to Mineralogy and Petrology, second edition, presents the essentials of both disciplines through an approach accessible to industry professionals, academic researchers, and students alike. This new edition emphasizes the relationship between rocks and minerals, right from the structures created during rock formation through the economics of mineral deposits. While petrology is classified on the lines of geological evolution and rock formation, mineralogy speaks to the physical and chemical properties, uses, and global occurrences for each mineral, emphasizing the need for the growth of human development. The primary goal is for the reader to identify minerals in all

respects, including host-rocks, and mineral deposits, with additional knowledge of mineral-exploration, resource, extraction, process, and ultimate use. To help provide a comprehensive analysis across ethical and socio-economic dimensions, a separate chapter describes the hazards associated with minerals, rocks, and mineral industries, and the consequences to humanity along with remedies and case studies. New to the second edition: includes coverage of minerals and petrology in extra-terrestrial environments as well as case studies on the hazards of the mining industry. Addresses the full scope of core concepts of mineralogy and petrology, including crystal structure, formation and grouping of minerals and soils,

definition, origin, structure and classification of igneous, sedimentary and metamorphic rocks Features more than 250 figures, illustrations and color photographs to vividly explore the fundamental principles of mineralogy and petrology Offers a holistic approach to both subjects, beginning with the formation of geologic structures that is followed by the hosting of mineral deposits and the exploration and extraction of lucrative, usable products that improve the health of global economies Includes new content on minerals and petrology in extraterrestrial environments and case studies on hazards in the mining industry  
Breeding and Biotechnology of Tea and its Wild Species Lecture Notes in Electrical En

This two-volume handbook presents a collection of novel methodologies with applications and illustrative examples in the areas of data-driven computational social sciences. Throughout this handbook, the focus is kept specifically on business and consumer-oriented applications with interesting sections ranging from clustering and network analysis, meta-analytics, memetic algorithms, machine learning, recommender systems methodologies, parallel pattern mining and data mining to specific applications in market segmentation, travel, fashion or entertainment analytics. A must-read for anyone in data-analytics, marketing, behavior modelling and computational social science, interested in the latest applications of new computer science

methodologies. The chapters are contributed by leading experts in the associated fields. The chapters cover technical aspects at different levels, some of which are introductory and could be used for teaching. Some chapters aim at building a common understanding of the methodologies and recent application areas including the introduction of new theoretical results in the complexity of core problems. Business and marketing professionals may use the book to familiarize themselves with some important foundations of data science. The work is a good starting point to establish an open dialogue of communication between professionals and researchers from different fields. Together, the two volumes present a number of different

new directions in Business and Customer Analytics with an emphasis in personalization of services, the development of new mathematical models and new algorithms, heuristics and metaheuristics applied to the challenging problems in the field. Sections of the book have introductory material to more specific and advanced themes in some of the chapters, allowing the volumes to be used as an advanced textbook. Clustering, Proximity Graphs, Pattern Mining, Frequent Itemset Mining, Feature Engineering, Network and Community Detection, Network-based Recommending Systems and Visualization, are some of the topics in the first volume. Techniques on Memetic Algorithms and their applications to Business Analytics and Data Science are

surveyed in the second volume; applications in Team Orienteering, Competitive Facility-location, and Visualization of Products and Consumers are also discussed. The second volume also includes an introduction to Meta-Analytics, and to the application areas of Fashion and Travel Analytics. Overall, the two-volume set helps to describe some fundamentals, acts as a bridge between different disciplines, and presents important results in a rapidly moving field combining powerful optimization techniques allied to new mathematical models critical for personalization of services. Academics and professionals working in the area of business analytics, data science, operations research and marketing will find this handbook valuable as a

reference. Students studying these fields will find this handbook useful and helpful as a secondary textbook.

Bioresource Utilization and Management  
Springer

The need for exploration, conservation, and sustainable utilization of bioresources is undeniable for the survival and growth of mankind. This new book throws light on new and recent research on and development of effective strategies for sustainable utilization of bioresources using modern tools and techniques to help meet this challenge. This volume addresses the utilization of bioresources in therapeutics, in biofuel, in agriculture, and in environmental protection. Beginning with the diverse potential applications of bioresources in food,

medicine, and cosmetics, the volume goes on to address the various different underutilized bioresources and their sustainable uses. It discusses important advances in biofuel and patents that highlight recent developments that address the energy crises and the continuously fluctuating cost of petroleum. It explores new renewable energy sources from bioresources and their sustainable utilization in the bioenergy and biofuel industry. Several chapters focus on the sustainable utilization of bioresources in the agricultural sector. The volume considers that developing countries have huge agricultural resources that could be employed for production of value-added byproducts for the sustainable development of a bio-based economy.

The book discusses efficient use of underexploited natural bioresources, new chemical approaches for the generation of novel biochemicals, and the applications of genetics approaches for bioresource conservation and production of value-added products. Further, strategies for the production of biopesticides utilizing bioresources are also discussed.

*My Life with Prof. Benoy Kumar Sarkar*  
John Wiley & Sons

A Textbook of Engineering Physics is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as required by students pursuing their studies in

various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Business and Consumer Analytics: New Ideas CRC Press

N/A

*Mineral Exploration* OUP India

Transportation planning plays a key role as a lifeline for any society. It comprises applications of science and art, where a great deal of judgment coupled with its technical elements is required to arrive at a meaningful decision in order to develop transportation infrastructure facilities for the community. It, thereby, helps in achieving a safer, faster, comfortable, convenient, economical, sustainable and environment-friendly movement of people and goods traffic. In this context, the book has been written,

and now updated in the second edition dealing with the basic principles and fundamentals of transportation planning.

It also keeps abreast of the current techniques practices and policies conducted in transportation planning.

Exploiting a systematic approach avoiding prolixity, this book will prove to be a vade mecum for the undergraduate and postgraduate students of civil engineering and transportation engineering. Besides, the book is of immense benefit to the students opting a course on Master of Planning conducted in various institutes. HIGHLIGHTS OF THE BOOK • Systematically organised concepts well-supported with ample illustrations • Prodigious illustrative figures and tables • Chapter-end summary helps in grasping the quirk



concepts • State-of-the-art data garnered in the book presents an updated version • Chapter-end review questions help students to prepare for the examination NEW TO THE SECOND EDITION • Provides Fuzzy Logic, Artificial Neural Network and Neuro Fuzzy Model techniques (Chapter 4) • Incorporates the formation of travel demand model with soft computing techniques including trip generation model (Chapter 5) • Provides a practical approach of calibrating Origin Destination Matrix (Chapter 6) • Incorporates the concept of mode choice models with a number of worked-out examples (Chapter 7) • Provides a case study on mobility plan of Gandhinagar, Gujarat, demonstrating the development of all stages of transport modelling (Chapter 11) • Includes a new

appendix on "Applications of Soft Computing in Trip Distribution and Traffic Assignment"

Regulating Cartels in India Elsevier

This book provides an inclusive and comprehensive discussion of the transmission, science, biology, genome sequencing, diagnostics, and therapeutics of COVID-19. It also discusses public and government health measures and the roles of media as well as the impact of society on the ongoing efforts to combat the global pandemic. It addresses almost every topic that has been studied so far in the research on SARS-CoV-2 to gain insights into the fundamentals of the disease and mitigation strategies. This volume is a useful resource for virologists, epidemiologists, biologists, medical

professionals, public health and government professionals, and all global citizens who have endured and battled against the pandemic.

**COMBINATORICS AND GRAPH THEORY** Springer

Presents the latest knowledge of improving the stress tolerance, yield, and quality of rice crops One of the most important cereal crops, rice provides food to more than half of the world population. Various abiotic stresses—currently impacting an estimated 60% of crop yields—are projected to increase in severity and frequency due to climate change. In light of the threat of global food grain insecurity, interest in molecular rice breeding has intensified in recent years. Progress has been made, but there

remains an urgent need to develop stress-tolerant, bio-fortified rice varieties that provide consistent and high-quality yields under both stress and non-stress conditions. *Molecular Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality* is the first book to provide comprehensive and up-to-date coverage of this critical topic, containing the physiological, biochemical, and molecular information required to develop effective engineering strategies for enhancing rice yield. Authoritative and in-depth chapters examine the molecular and genetic bases of abiotic stress tolerance, discuss yield and quality improvement of rice, and explore new approaches to better utilize natural resources through modern breeding. Topics Include rice adaptation to climate

change, enriching rice yields under low phosphorus and light intensity, increasing iron, zinc, vitamin and antioxidant content, and improving tolerance to salinity, drought, heat, cold, submergence, heavy metals and Ultraviolet-B radiation. This important resource: Contains the latest scientific information on a wide range of topics central to molecular breeding for rice Provides timely coverage molecular breeding for improving abiotic stress tolerance, bioavailability of essential micronutrients, and crop productivity through biotechnological methods Features detailed chapters written by internationally-recognized experts in the field Discusses recent progress and future directions in molecular breeding strategies and research Molecular

Breeding for Rice Abiotic Stress Tolerance and Nutritional Quality is required reading for rice researchers, agriculturists, and agribusiness professionals, and the ideal text for instructors and students in molecular plant breeding, abiotic stress tolerance, environmental science, and plant physiology, biochemistry, molecular biology, and biotechnology. *Struggle for India's Freedom: Defeat of Netaji's Dream* PHI Learning Pvt. Ltd. Combinatorics and Graph Theory is designed as a textbook for undergraduate students of computer science and engineering and postgraduate students of computer applications. The book seeks to introduce students to the mathematical concepts needed to develop abstract

thinking and problem solving—important prerequisites for the study of computer science. The book provides an exhaustive coverage of various concepts and remarkable introduction of several topics of combinatorics and graph theory. The book presents an informative exposure for beginners and acts as a reference for advanced students. It highlights comprehensive and rigorous views of combinatorics and graphs. The text shows simplicity and step-by-step concepts throughout and is profusely illustrated with diagrams. The real-world applications corresponding to

the topics are appropriately highlighted. The chapters have also been interspersed throughout with numerous interesting and instructional notes. Written in a lucid style, the book helps students apply the mathematical tools to computer-related concepts and consists of around 600 worked-out examples which motivate students as a self-learning mode. KEY FEATURES Contains various exercises with their answers or hints. Lays emphasis on the applicability of mathematical structures to computer science. Includes competitive examinations' questions asked in GATE, NET, SET, etc

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