

Jadavpur University Question Papers

This book, now in its second edition, continues to provide a comprehensive introduction to the principles of chemical engineering thermodynamics and also introduces the student to the application of principles to various practical areas. The book emphasizes the role of the fundamental principles of thermodynamics in the derivation of significant relationships between the various thermodynamic properties. The initial chapter provides an overview of the basic concepts and processes, and discusses the important units and dimensions involved. The ensuing chapters, in a logical presentation, thoroughly cover the first and second laws of thermodynamics, the heat effects, the thermodynamic properties and their relations, refrigeration and liquefaction processes, and the equilibria between phases and in chemical reactions. The book is suitably illustrated with a large number of visuals. In the second edition, new sections on Quasi-Static Process and Entropy Change in Reversible and Irreversible Processes are included. Besides, new Solved Model Question Paper and several new Multiple Choice Questions are also added that help develop the students' ability and confidence in the application of the underlying concepts. Primarily intended for the undergraduate students of chemical engineering and other related engineering disciplines such as polymer, petroleum and pharmaceutical engineering, the book will also be useful for the postgraduate students of the subject as well as professionals in the relevant fields.

This collection of works by women Indian writers touches on such areas as feminism, Indic culture and society, and Indic history. The two volume set CCIS 1030 and 1031 constitutes the refereed proceedings of the Second International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2018, held in Kalyani, India, in July 2018. The 76 revised full papers presented in the two volumes were carefully reviewed and selected from 240 submissions. The papers are organized in topical sections on computational intelligence; signal processing and communications; microelectronics, sensors, and intelligent networks; data science & advanced data analytics; intelligent data mining & data warehousing; and computational forensics (privacy and security).

Formal languages and automata theory is the study of abstract machines and how these can be used for solving problems. The book has a simple and exhaustive approach to topics like automata theory, formal languages and theory of computation. These descriptions are followed by numerous relevant examples related to the topic. A brief introductory chapter on compilers explaining its relation to theory of computation is also given.

This book constitutes the refereed post-conference proceedings of a Workshop focussing on Text Processing, held at the Forum for Information Retrieval Evaluation, FIRE 2016, in Kolkata, India, in December 2016. 16 full papers have been selected for inclusion in the book out of 19 submissions. The papers refer to the following seven tracks: Consumer Health Information Search (CHIS), Detecting Paraphrases in Indian Languages (DPIL), Information Extraction from Microblogs Posted during Disasters, Persian Plagiarism Detection (PersianPlagDet), Personality Recognition in SOURCE CODE (PR-SOCO), Shared Task on Mixed Script Information Retrieval (MSIR), and Shared Task on Code Mix Entity Extraction in Indian Languages (CMEE-IL).

The essays in this volume develop an understanding of the institutions, practices and forms of representation of Indian sexual relations and their boundaries of legitimacy.

Numerical Methods and Programming has been written for engineering students of all streams, and can also be used profitably by all degree students. Theories have been discussed comprehensively, with numerous solved problems to help students understand subsequent techniques. The C programs in the book will be of immense help to the students in solving complex problems. The authors' long experiences of teaching various grades of students have played an instrumental role towards this end. Key Features • Brief but sufficient discussion of theory • Lucid presentation of theoretical concepts • Simple and easy-to-understand language • Solutions for a large number of technical problems • Examination-oriented approach • Several multiple choice questions with answers • Latest and previous years' university question papers

This book constitutes the refereed proceedings of the 4th International Conference on Mining Intelligence and Knowledge Exploration, MIKE 2016, held in Mexico City, Mexico, in November 2016. The 18 full papers presented were carefully reviewed and selected from 56 submissions. Accepted papers were grouped into various subtopics including information retrieval, machine learning, pattern recognition, knowledge discovery, classification, clustering, image processing, network security, speech processing, natural language processing, language, cognition and computation, fuzzy sets, and business intelligence.

A sudden announcement was made by the government on 24 March 2020 of a complete lockdown of the country, due to the spectre of Coronavirus. India's Migrant Workers and the Pandemic was being written as the crisis was unfolding with no end in sight. Migrant workers from different parts of India had no choice but to trek back hundreds of kilometres carrying their scanty belongings and dragging their hungry and thirsty children in the scorching heat of the plains of India to reach home. How did caste, race, gender, and other fault lines operate in this governmental strategy to cope with a virus epidemic? The eight papers in this collection, highlight the ethical and political implications of the epidemic—particularly for India's migrant workers. What were the forces of power at play in this war against the epidemic? What measures could have been taken and need to be taken now? Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka.

We live in a world that sees and also contesting ideas of Eurocentrism in the interpretation of various issues, including African literatures and cultures. This book seeks to engage readers into a critical examination of the meaning, history, ambiguity, status and perceptions surrounding African languages and literature. It presents current shifts in form and practice surrounding regional, national, and "postcolonial" models towards "world literature" by focusing on African literature as a focal point for understanding perceptions of the world towards African languages and literature. The book shows the importance of wrestling with issues of global aftermaths of slavery, audience, readership, diasporic and transnational connections, as well as digital and social media without undermining the conflicts that literature presents in and on its own merit.

Network Analysis & SynthTata McGraw-Hill EducationIntroduction to Chemical EngineeringTata McGraw-Hill EducationIntroduction to Automata Theory, Formal Languages and ComputationPearson Education India

The book expounds the major topics in the special theory of relativity. It provides a detailed examination of the mathematical foundation of the special theory of relativity, relativistic mass, relativistic mechanics and relativistic electrodynamics. As well as covariant formulation of relativistic mechanics and electrodynamics, the book discusses the relativistic effect on photons. Using a mathematical approach, the text

offers graduate students a clear, concise view of the special theory of relativity. Organized into 14 chapters and two appendices, the content is presented in a logical order, and every topic has been dealt with in a simple and lucid manner. To aid understanding of the subject, the book provides numerous relevant worked examples in every chapter. The book's mathematical approach helps students in their independent study and motivates them to research the topic further.

This book traces the emergence and flourishing of madrasas and the myriad ways in which they impact upon local Muslim communities, especially in West Bengal. It also addresses identity, 'secular' education and gender in this context, while exploring the myths that surround these institutions.

Women Speak Nation underlines the centrality of gender within the ideological construction of nationalism. The volume locates itself in a rich scholarship of feminist critique of the relationship between political, economic, cultural, and social formations and normative gendered relations to try and understand the cross-currents in contemporary feminist theorizing and politics. The chapters question the gendered depictions of the nation as Hindu, upper caste, middle class, heterosexual, able-bodied Indian mother. The volume also brings together interviews and short essays from practitioners and activists who voice an alternative reimagining of the nation. The book will be of great interest to scholars and researchers of gender, politics, modern South Asian history, and cultural studies.

First Published in 1997. Routledge is an imprint of Taylor & Francis, an informa company.

Information-Control Problems in Manufacturing Technology contains the proceedings of an international symposium on "Information-Control Problems in Manufacturing Technology" held in Tokyo, Japan, on October 17-20, 1977 under the auspices of the International Federation of Automatic Control. The symposium provided a forum for discussing various engineering and technical problems in the automation of every step of the manufacturing process including design, machining, material handling, assembling, and inspection. Comprised of 46 chapters, this book begins by describing the modeling and simulation of a production system for small batch size metalworking production with high automation and high flexibility. The discussion then turns to the conceptual design of a multi-purpose automated Integrated Production Center for batch or piecewise production; research issues for automatic assembly; and practical application of diagnostic signature analysis to testing of rotating machines. Subsequent chapters focus on a profile pattern recognition system for machine parts; automatic inspection of defects on contact parts; the use of material-handling robots for programmable automation; and extra-cyclic passages of gray codes and their applications in numerical control design. This monograph will be of interest to engineers and technicians employed in the manufacturing industry.

Research Methodology for Social Sciences provides guidelines for designing and conducting evidence-based research in social sciences and interdisciplinary studies using both qualitative and quantitative data. Blending the particularity of different sub-disciplines and interdisciplinary nature of social sciences, this volume: Provides insights on epistemological issues and deliberates on debates over qualitative research methods; Covers different aspects of qualitative research techniques and evidence-based research techniques, including survey design, choice of sample, construction of indices, statistical inferences and data analysis; Discusses concepts, techniques and tools at different stages of research, beginning with the design of field surveys to collect raw data and then analyse it using statistical and econometric methods. With illustrations, examples and a reader-friendly approach, this volume will serve as a key reference material for compulsory research methodology courses at doctoral levels across different disciplines, such as economics, sociology, women's studies, education, anthropology, political science, international relations, philosophy, history and business management. This volume will also be indispensable for postgraduate courses dealing with quantitative techniques and data analysis.

About Book Roy's Frosted Glass did very well in the market. His Pentacles and Winter Poems, did so well that Amazon Audible converted them into Audio books by the Australian young jazz singer, Colin Newcomer. Abyss was on the bestseller list at the Oxford Bookstore at the Kolkata Book Fair in 2014. Random Subterranean Mosaic: 2012–2018 is a kaleidoscope of random, yet mysteriously structured to a pattern, fiction, semi-autobiographical, and autobiographical pieces, covering poems, short-shorts, opinions, observations, and conversations. Roy says: "All my life I have struggled to achieve an optimal lucidity in language and expression that is required to demystify the hidden self and selves and agendas. I hope I have achieved this in a large measure in this fifth book of mine!"

Discusses the general theory of relativity, Lie derivatives, rotating black holes, with a focus on basics of cosmology and astrophysics.

The two-volume set LNAI 7629 and LNAI 7630 constitutes the refereed proceedings of the 11th Mexican International Conference on Artificial Intelligence, MICAI 2012, held in San Luis Potosí, Mexico, in October/November 2012. The 80 revised papers presented were carefully reviewed and selected from 224 submissions. The second volume includes 40 papers focusing on soft computing. The papers are organized in the following topical sections: natural language processing; evolutionary and nature-inspired metaheuristic algorithms; neural networks and hybrid intelligent systems; fuzzy systems and probabilistic models in decision making.

The two volume set CCIS 775 and 776 constitutes the refereed proceedings of the First International Conference on Computational Intelligence, Communications, and Business Analytics, CICBA 2017, held in Kolkata, India, in March 2017. The 90 revised full papers presented in the two volumes were carefully reviewed and selected from 276 submissions. The papers are organized in topical sections on data science and advanced data analytics; signal processing and communications; microelectronics, sensors, intelligent networks; computational forensics (privacy and security); computational intelligence in bio-computing; computational intelligence in mobile and quantum computing; intelligent data mining and data warehousing; computational intelligence.

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