

## Engineering Chemistry Jain And Jain 15th Edition Book Free

Some chapters in the book deal with the basic principles of chemistry while others are focused on its applied aspects, providing the correct interphase between the principles of chemistry and engineering.

**KEY FEATURES** \* Chapters cover both basic principles of chemistry as also its applied aspects. \* Written in easy self-explanatory language and in depth at the same time. \* Review questions provided at the end of each chapter. \* A separate section 'Laboratory Manual' in Engineering Chemistry comprising 12 experiments is appended at the end of the book.

The book attends to a historical question — how to account for the high numbers of renouncers (sadhvis) mentioned in medieval and ancient texts — which has been acknowledged and raised, but left unaddressed within Jain studies. It does so through ethnographic data gathered through extensive fieldwork among the sadhvis in Delhi and Jaipur. The volume foregrounds the primacy of 'choice' and 'agency'— upheld by the nuns themselves, who associate asceticism with autonomy, freedom, joy, spiritual well-being, self-worth and peace, and grihastha (household) with loss of independence, fettered existence, degradation, burdensome familial

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obligations and social responsibilities. It also examines whether it may be apt to term Jain nuns as practitioners of an 'indigenous mode of feminism'. The book challenges the existing sociological theories of renunciation and tests the feminist concepts of agency and autonomy by investigating the culturally coded roles ascribed to women in Jainism, which are variegated, and examines how a fractured discourse and reality is resolved in the subjectivities and identities of female ascetics. The very legitimacy of the institution of female asceticism, and the way in which the society (samaj) upholds and sustains it, renders female asceticism into a socially approved alternative institution — albeit one that allows Jain nuns to create spaces of relative and autonomy and even prestige for themselves.

Life is impossible without chemistry. Engineering chemistry has a special role to play in the curriculum of under graduate students of all branches of Engineering. The present book entitled "ENGINEERING CHEMISTRY LABORATORY MANUAL" is very useful to Engineering students of various Institutions. The practical book providing simple and easy approach on the subject matter to Engineering students.

Take some heat off the complexity of thermodynamics Does the mere thought of thermodynamics make you sweat? It doesn't have to! This hands-on guide helps you score your highest in

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a thermodynamics course by offering easily understood, plain-English explanations of how energy is used in things like automobiles, airplanes, air conditioners, and electric powerplants.

Thermodynamics 101 — take a look at some examples of both natural and man-made thermodynamic systems and get a handle on how energy can be used to perform work Turn up the heat — discover how to use the first and second laws of thermodynamics to determine (and improve upon) the efficiency of machines Oh, behave — get the 411 on how gases behave and relate to one another in different situations, from ideal-gas laws to real gases Burn with desire — find out everything you need to know about conserving mass and energy in combustion processes Open the book and find: The laws of thermodynamics Important properties and their relationships The lowdown on solids, liquids, and gases How work and heat go hand in hand The cycles that power thermodynamic processes Chemical mixtures and reactions Ten pioneers in thermodynamics Real-world applications of thermodynamic laws and concepts Learn to: Master the concepts and principles of thermodynamics Develop the problem-solving skills used by professional engineers Ace your thermodynamics course

This book is written strictly for the first and second semester diploma students of engineering chemistry

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according to the revised syllabus. It aims to provide a thorough understanding of the chemical concepts, theories and principles in Engineering Chemistry in a clear and concise manner, so that the average students are able to grasp the intricacies of the subject. Explaining general concepts of atomic structure and chemical bond, the book covers all advanced topics such as acid–base theory, concentration of solutions, electrochemistry, corrosion, metallurgy, hydrocarbons, sources of water and its treatment, lubricants and adhesives, fuel, polymer and environmental chemistry. Each theoretical concept is well supported by illustrative examples. Besides, the book provides a large number of solved problems to reinforce the theoretical understanding of concepts. Each chapter contains glossary terms and provides short questions and long questions for practice. Previous year question papers and model questions with answers are appended at the end of the book to help students ace in examinations.

Optical Properties of Functional Polymers and Nano Engineering Applications provides a basic introduction to the optical properties of polymers, as well as a systematic overview of the latest developments in their nano engineering applications. Covering an increasingly important class of materials relevant not only in academic research but also in industry, this comprehensive text: Considers the

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advantages of the liquid gradient refractive index (L-GRIN) lenses over the conventional solid lenses  
Explores the electrochemistry of photorefractive polymers, the molecular structure of commonly used polymers, and various 3D holographic displays  
Discusses gene detection using the optical properties of conjugated polymers  
Highlights the physics of fluorescence in photoluminescent polymers, and energy and electron transfer mechanisms  
Introduces conventional polymer ion sensors based on the optical sensors of conjugated polymers prepared by click chemistry reactions  
Explains colorimetric visual detection of ions by donor–acceptor chromophores  
Describes optical sensors based on fluorescent polymers and for the detection of explosives and metal ion analytes  
Addresses holographic polymer-dispersed liquid crystal technology, its optical setups, and its applications in organic lasers  
Presents cutting-edge research on electrochromic devices, along with new concepts, prototypes, commercial products, and future prospects  
Demonstrates new techniques for creating nanoscale morphologies through self-assembly, which affect the optical properties of the functional polymers  
Optical Properties of Functional Polymers and Nano Engineering Applications emphasizes the importance of nano engineering in improving the fundamental optical properties of the functional polymers, elaborating on high-level

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research while thoroughly explaining the underlying principles.

The Jain community in India, though small in number, is very important in the economic and social life of the country. Jain history becomes more important when we find that the community anticipated new commercial practices adopted by European trading countries from the sixteenth century onwards. Two Jain names stand out in history; they are Veerji Vora, in the seventeenth century and Jagat Seth of Bengal in the eighteenth century. A succession of Jagat Seths interacted with high government officials and were very influential in their time as this volume brings out. This volume contributes significantly to the study of merchant communities and colonial history in South Asia.

Please note: Taylor & Francis does not sell or distribute the Hardback in India, Pakistan, Nepal, Bhutan, Bangladesh and Sri Lanka

Written in lucid language, the book offers a detailed treatment of fundamental concepts of chemistry and its engineering applications.

America now is home to approximately five million Hindus and Jains. Their contribution to the economic and intellectual growth of the country is unquestionable. Dharma in America aims to explore the role of Hindu and Jain Americans in diverse fields such as: education and civic engagements medicine and healthcare music. Providing a concise history of Hindus and Jains in the Americas over the last two centuries, Dharma in America also gives some insights into the ongoing

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issues and challenges these important ethnic and religious groups face in America today.

With escalating concerns over the current state of our planet, the realization to work toward reducing our environmental footprint is gaining momentum. Scientists have realized that green chemistry is the key to reduce waste, rendering healthy environment, and improving human health. The 12 principles of green chemistry are the basic tenets that require understanding at the most fundamental level and implementation to promoting sustainable synthesis. This book discusses innovations in the form of greener technologies (superior green catalysts, alternate reaction media, and green energy sources) and elaborates their tremendous potential in combating the critical global challenges on the horizon. It intends to empower and educate students to grasp the key concepts of green chemistry, think out of the box and come up with new ideas, and apply the basic concepts in greening the world. It extensively covers the goals of the United Nation's 2030 Agenda of Sustainable Development, which can be successfully achieved with the aid of green chemistry. It also highlights cutting-edge greener technologies such as biomimicry, miniaturization, and continuous flow. Edited by two active green chemists, the book presents in-depth knowledge of this field and is extremely helpful for undergraduate, graduate, and postgraduate readers, as well as academic and industrial researchers.

Conceptual Chemistry Volume-I For Class XII

Assistive Technology Intervention in Healthcare focuses on various applications of intelligent techniques in biomedical engineering and health informatics. It aims to create awareness about disability reduction and recovery of accidental disability with the help of various rehabilitative systems. Novel technologies in disability treatment, management and assistance including healthcare devices

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and their utility from home to hospital is described. It deals with simulation, modeling, measurement, control, analysis, information extraction and monitoring of physiological data in clinical medicine and biology.

This new resource focuses on many recent advances in recycling and reuse of materials, outlining basic tools and novel approaches. It covers such important issues as e-waste recycling, bio-mass recycling, vermitechnology, recovery of metals, polymer recycling, environmental remediation, waste management, recycling of nanostructured materials, and more. Also included is coverage of new research in the use of laser spectroscopy, pyrolysis, and recycled biomaterials for biomedical applications.

Engineering Chemistry is an interdisciplinary subject offered to undergraduate Engineering students. This book introduces the fundamental concepts in a simple and concise manner and highlights the role of chemistry in the field of engineering. It includes a large number of end-of-chapter exercises that test the student's understanding besides being useful from the examination point of view.

High purity, thin metal coatings have a variety of important commercial applications, for example, in the microelectronics industry, as catalysts, as protective and decorative coatings as well as in gas-diffusion barriers. This book offers detailed, up-to-date coverage of the chemistry behind the vapor deposition of different metals from organometallic precursors. In nine chapters, the CVD of metals including aluminum, tungsten, gold, silver, platinum, palladium, nickel, as well as copper from copper(I) and copper(II) compounds is covered. The synthesis and properties of the precursors, the growth process,

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morphology, quality and adhesion of the resulting films as well as laser- assisted, ion- assisted and plasma-assisted methods are discussed. Present applications and prospects for future developments are summarized. With ca. 1000 references and a glossary, this book is a unique source of in-depth information. It is indispensable for chemists, physicists, engineers and materials scientists working with metal- coating processes and technologies. From Reviews: 'I highly recommend this book to anyone interested in learning more about the chemistry of metal CVD.' J. Am Chem. Soc.

In the constant battle between human intelligence and machine intelligence, machines are close to surpassing human intelligence. The unrestrained use of digital technologies in automating processes is one of the prime advantages of the third industrial revolution. As a result, all developed and developing nations have started to digitalize mundane tasks. Thus, digital technologies for information and communication technologies (ICT) have achieved high market space in terms of infrastructure building, employment generation, education sector reforms, funds mobilization, electronic governance, hardware manufacturing, software development, etc. Hence, it is evident that every segment of society has been penetrated by ICT or digitalization. This book attempts to spotlight areas where AI is thriving.

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**FEATURES** Impact of digitalization and AI on governance Novel AI practices being followed across the global community in security, healthcare, crime prevention and detection, education, agriculture, sensor networks, etc. Innovative techniques that can be adopted to ensure better quality and better delivery of services to the society Avenues for further research by the research community and student fraternity This book is a guide for university students (especially those from technical backgrounds), industries, NGOs, and policy makers.

This book on Engineering Chemistry has been entirely rewritten in order to make it up-to-date and modern, both in approach and content. All diagrams have been redrawn or replaced by new ones. To meet the requirements of the latest syllabi of the various universities of India, topics like transition metals, coordination compounds, crystal field theory, gaseous and liquid states, adsorption, flame photometry, fullerenes, composites, mechanism of some typical reactions, oils and fats, soaps and detergents, have been included or expanded upon. A large number of solved numerical examples drawn from various university examinations have been given at the end of theoretical part of each chapter. Questions have been drawn from latest examinations of various universities.

Smart Computational Intelligence in Biomedical and

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Health Informatics presents state-of-the-art innovations; research, design, and implementation of methodological and algorithmic solutions to data processing problems, including analysis of evolving trends in health informatics and computer-aided diagnosis. This book describes practical, applications-led research regarding the use of methods and devices in clinical diagnosis, disease prevention, and patient monitoring and management. It also covers simulation and modeling, measurement and control, analysis, information extraction and monitoring of physiological data in clinical medicine and the biological sciences.

**FEATURES** Covers evolutionary approaches to solve optimization problems in biomedical engineering Discusses IoT, Cloud computing, and data analytics in healthcare informatics Provides computational intelligence-based solution for diagnosis of diseases Reviews modelling and simulations in designing of biomedical equipment Promotes machine learning-based approaches to improvements in biomedical engineering problems This book is for researchers, graduate students in healthcare, biomedical engineers, and those interested in health informatics, computational intelligence, and machine learning.

Any good text book, particularly that in the fast changing fields such as engineering & technology, is not only expected to cater to the current curricular

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requirements of various institutions but also should provide a glimpse towards the latest developments in the concerned subject and the relevant disciplines. It should guide the periodic review and updating of the curriculum.

Examining the history and intellectual activity of the medieval Svetambara Jain renunciant order, the Tapa Gaccha, this book focuses on the consolidation by the Tapa Gaccha from the thirteenth century of its identity as the leading Svetambara order. The author argues that this was variously effected by negotiating the primacy of lineage, the posthumous divinity of one of its leaders, the validity of styles of scriptural exegesis and customary practice and the status of non-Jains through the medium of chronicles and poetry and polemical engagement with other Jain orders and dissident elements within its own ranks. Drawing on largely unstudied primary sources, the author demonstrates how Tapa Gaccha writers created a sophisticated intellectual culture which was a vehicle for the maintenance of sectarian identity in the early modern period. The book explores issues which have been central to our understanding of many of the questions currently being asked about the development not just of Jainism but of South Asian religions in general, such as the manner in which authority is established in relation to texts, the relationship between scripture, commentary and tradition and tensions both between and within sects.

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Engineering Chemistry is designed as a textbook for first year undergraduate engineering students. Besides covering the revised AICTE syllabus, it fulfils the syllabus requirements of universities across India. Divided into two parts, the book provides a comprehensive discussion of all relevant and important topics related to basic and applied chemistry.

Geomicrobiology is a combination of geology and microbiology, and includes the study of interaction of microorganisms with their environment, such as in sedimentary rocks. This is a new and rapidly-developing field that has led in the past decade to a radically-revised view of the diversity and activity of microbial life on Earth.

Geomicrobiology e

This book is primarily intended for the first year B.Tech students of all branches for their course on engineering chemistry. The main objective of this book is to provide a broad understanding of the chemical concepts, theories and principles of Engineering Chemistry in a clear and concise manner, so that even an average student can grasp the intricacies of the subject. It includes the general concepts of structure and bonding, phase rule, solid state, reaction kinetics and catalysis, electrochemistry, chemical thermodynamics and free energy. Besides, the book introduces topics of applied chemistry like water technology, polymer chemistry and nanotechnology. Each theoretical concept is well supported by illustrative examples. The book also provides a large number of solved problems and illustrations to reinforce the theoretical understanding of concepts. **KEY FEATURES** (i) Each chapter of the book provides a clear and easy understanding of the definitions,

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theories and principles. (ii) A large number of well-labelled diagrams help to understand the concepts easily and clearly. (iii) Chapter-wise glossary and important mathematical relations are given for quick revision. (iv) Provides multiple choice questions with answers, short questions and long questions for practice.

The book is meant for for B.E./B.Tech./B.Sc. (Engg.) students of Indian universities. Theoretical portions have been explained in simple language, together with large number of illustrative diagrams. Contains many tutorial problems drawn from various universities. Also included is a special feature test your understanding and know the type of theoretical questions asked in the examinations.

Due to its simple language, straightforward approach to explaining concepts, and the right kind of examples, this book has established itself as student's companion in almost all leading universities in India. With its authentic text and a large number of questions taken from various university examinations, coupled with regular revisions, the book has served well for more than 20 years now. In the attempt to keep the book aligned with various syllabuses and to reach out to students of more and more universities, more details have been included for the fourth edition, which has been completely recast and reformatted. The book is meant for the first year engineering degree courses of Indian universities.

**STRENGTH OF THE BOOK** • Numerous solved problems • Large number of questions from various universities for exhaustive practice • Boxes featuring important and popular aspects of the topic

**NEW IN THE FOURTH EDITION** • Completely recast and reformatted text • New topics like: Cooling curves for one- and two-component eutectics; Electrode polarization and overvoltage; Decomposition potential; Solar cells; Pitting corrosion; Metallurgy and medicine; Reverse osmosis; Bioengineering.

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"This revised and expanded edition takes account of new research into Jainism as carried out over the last ten years."--BOOK JACKET.

This handbook covers the broad scope of nanomedicine. Starting with the basics, the subject is developed to potential clinical applications, many of which are still at an experimental stage. The book features extensive coverage of nanodiagnosics and nanopharmaceuticals, which are two important components of nanomedicine. Written by a physician-scientist author who blends his clinical experience and scientific expertise in new technologies, this book provides a definitive account of nanomedicine. It offers more up-to-date and comprehensive coverage of nanomedicine than any other comparable work.

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.

This updated edition of Gesser's classic textbook has undergone a full revision and now has the latest material, including new chapters on semiconductors and nanotechnology. It includes a supplementary laboratory section with stepwise experimental protocols.

Research articles on Indian diaspora.

About the Book: This book Engineering Mathematics-II is designed as a self-contained, comprehensive classroom text for the second semester B.E. Classes

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of Visveswaraiah Technological University as per the Revised new Syllabus. The topics included are Differential Calculus, Integral Calculus and Vector Integration, Differential Equations and Laplace Transforms. The book is written in a simple way and is accompanied with explanatory figures. All this make the students enjoy the subject while they learn. Inclusion of selected exercises and problems make the book educational in nature. It shou.

Technology is moving at an exponential pace in this era of computational intelligence. Machine learning has emerged as one of the most promising tools used to challenge and think beyond current limitations. This handbook will provide readers with a leading edge to improving their products and processes through optimal and smarter machine learning techniques. This handbook focuses on new machine learning developments that can lead to newly developed applications. It uses a predictive and futuristic approach, which makes machine learning a promising tool for processes and sustainable solutions. It also promotes newer algorithms that are more efficient and reliable for new dimensions in discovering other applications, and then goes on to discuss the potential in making better use of machines in order to ensure optimal prediction, execution, and decision-making. Individuals looking for machine learning-based knowledge will find interest in this handbook. The

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readership ranges from undergraduate students of engineering and allied courses to researchers, professionals, and application designers.

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