

# Online Library Solution Heat Mass Transfer Fundamentals Applications Free Download Pdf

**Heat and Mass Transfer Nanofluids for Heat and Mass Transfer Advanced Heat and Mass Transfer** Fundamentals of Heat and Mass Transfer *Heat and Mass Transfer Heat and Mass Transfer in Building Services Design* **Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts** Fundamentals of Heat and Mass Transfer A Textbook of Heat and Mass Transfer *Fundamentals of Momentum, Heat, and Mass Transfer* **Heat and Mass Transfer Heat and Mass Transfer Heat-Mass Transfer and Geodynamics of the Lithosphere** **Heat and Mass Transfer Nanofluids and Mass Transfer Mass and Heat Transfer Nanofluid Heat and Mass Transfer in Engineering Problems** **Heat and Mass Transfer** Heat and Mass Transfer in Capillary-Porous Bodies **Heat and Mass Transfer Basic Heat and Mass Transfer Heat and Mass Transfer A HEAT TRANSFER TEXTBOOK Convective Heat and Mass Transfer, Second Edition Fundamentals of Heat and Mass Transfer Applications of Heat, Mass and Fluid Boundary Layers Fluid Mechanics, Heat Transfer, and Mass Transfer Transport Phenomena in Heat and Mass Transfer A Textbook of Heat and Mass Transfer [Concise Edition] Fundamentals of Heat Transfer Numerical Analysis of Heat and Mass Transfer in Porous Media Principles of Heat and Mass Transfer Heat and Mass Transfer in Metallurgical Systems** Flow and Heat and Mass Transfer in Laminar and Turbulent Mist Gas-Droplets Stream over a Flat Plate **Modelling of Convective Heat and Mass Transfer in Rotating Flows** *Principles of Gas-Solid Flows* **An Introduction to Mass and Heat Transfer Mass Transfer** *Heat and Mass Transfer* Heat and Mass Transfer in Buildings

**Fluid Mechanics, Heat Transfer, and Mass Transfer** Aug 03 2020 This broad-based book covers the three major areas of Chemical Engineering. Most of the books in the market involve one of the individual areas, namely, Fluid Mechanics, Heat Transfer or Mass Transfer, rather than all the three. This book presents this material in a single source. This avoids the user having to refer to a number of books to obtain information. Most published books covering all the three areas in a single source emphasize theory rather than practical issues. This book is written with emphasis on practice with brief theoretical concepts in the form of questions and answers, not adopting stereo-typed question-answer approach practiced in certain books in the market, bridging the two areas of theory and practice with respect to the core areas of chemical engineering. Most parts of the book are easily understandable by those who are not experts in the field. Fluid

Mechanics chapters include basics on non-Newtonian systems which, for instance find importance in polymer and food processing, flow through piping, flow measurement, pumps, mixing technology and fluidization and two phase flow. For example it covers types of pumps and valves, membranes and areas of their use, different equipment commonly used in chemical industry and their merits and drawbacks. Heat Transfer chapters cover the basics involved in conduction, convection and radiation, with emphasis on insulation, heat exchangers, evaporators, condensers, reboilers and fired heaters. Design methods, performance, operational issues and maintenance problems are highlighted. Topics such as heat pipes, heat pumps, heat tracing, steam traps, refrigeration, cooling of electronic devices, NO<sub>x</sub> control find place in the book. Mass transfer chapters cover basics such as diffusion, theories, analogies, mass transfer coefficients and mass transfer with chemical reaction, equipment such as tray and packed columns, column internals including structural packings, design, operational and installation issues, drums and separators are discussed in good detail. Absorption, distillation, extraction and leaching with applications and design methods, including emerging practices involving Divided Wall and Petluk column arrangements, multicomponent separations, supercritical solvent extraction find place in the book.

**Heat and Mass Transfer** Dec 19 2021 Heat and mass transfer is the core science for many industrial processes as well as technical and scientific devices. Automotive, aerospace, power generation (both by conventional and renewable energies), industrial equipment and rotating machinery, materials and chemical processing, and many other industries are requiring heat and mass transfer processes. Since the early studies in the seventeenth and eighteenth centuries, there has been tremendous technical progress and scientific advances in the knowledge of heat and mass transfer, where modeling and simulation developments are increasingly contributing to the current state of the art. Heat and Mass Transfer - Advances in Science and Technology Applications aims at providing researchers and practitioners with a valuable compendium of significant advances in the field.

**Principles of Heat and Mass Transfer** Feb 27 2020 Completely updated, the seventh edition provides engineers with an in-depth look at the key concepts in the field. It incorporates new discussions on emerging areas of heat transfer, discussing technologies that are related to nanotechnology, biomedical engineering and alternative energy.

A Textbook of Heat and Mass Transfer Feb 21 2022 “Heat and Mass Transfer” is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC. Divided into 5 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

**Mass and Heat Transfer** Jul 14 2021 This text allows instructors to teach a course on heat and mass transfer that will equip students with the pragmatic, applied skills required by the modern chemical industry. This new approach is a combined presentation of heat and mass transfer, maintaining mathematical rigor while keeping mathematical analysis to a minimum. This allows students to develop a strong conceptual understanding, and

teaches them how to become proficient in engineering analysis of mass contactors and heat exchangers and the transport theory used as a basis for determining how critical coefficients depend upon physical properties and fluid motions. Students will first study the engineering analysis and design of equipment important in experiments and for the processing of material at the commercial scale. The second part of the book presents the fundamentals of transport phenomena relevant to these applications. A complete teaching package includes a comprehensive instructor's guide, exercises, case studies, and project assignments.

**Convective Heat and Mass Transfer, Second Edition** Nov 06 2020 Convective Heat and Mass Transfer, Second Edition, is ideal for the graduate level study of convection heat and mass transfer, with coverage of well-established theory and practice as well as trending topics, such as nanoscale heat transfer and CFD. It is appropriate for both Mechanical and Chemical Engineering courses/modules.

*Heat and Mass Transfer* Jun 25 2022 This textbook presents the classical treatment of the problems of heat transfer in an exhaustive manner with due emphasis on understanding of the physics of the problems. This emphasis will be especially visible in the chapters on convective heat transfer. Emphasis is also laid on the solution of steady and unsteady two-dimensional heat conduction problems. Another special feature of the book is a chapter on introduction to design of heat exchangers and their illustrative design problems. A simple and understandable treatment of gaseous radiation has been presented. A special chapter on flat plate solar air heater has been incorporated that covers mathematical modeling of the air heater. The chapter on mass transfer has been written looking specifically at the needs of the students of mechanical engineering. The book includes a large number and variety of solved problems with supporting line diagrams. A number of application-based examples have been incorporated where applicable. The end-of-chapter exercise problems are supplemented with stepwise answers. Though the book has been primarily designed to serve as a complete textbook for undergraduate and graduate students of mechanical engineering, it will also be useful for students of chemical, aerospace, automobile, production, and industrial engineering streams. The book fully covers the topics of heat transfer coursework and can also be used as an excellent reference for students preparing for competitive graduate examinations.

Heat and Mass Transfer in Buildings Jun 20 2019 The second edition of this reliable text provides thorough understanding of essential design procedures. Updated and extended, this invaluable guide continues to resource built environment students.

Flow and Heat and Mass Transfer in Laminar and Turbulent Mist Gas-Droplets Stream over a Flat Plate Dec 27 2019 In this book the author presents selected challenges of thermal-hydraulics modeling of two-phase flows in minichannels with change of phase. These encompass the common modeling of flow boiling and flow condensation using the same expression. Approaches to model these two respective cases show, however, that experimental data show different results to those obtained by methods of calculation of heat transfer coefficient for respective cases. Partially that can be devoted to the fact that there are non-adiabatic effects present in both types of phase change phenomena which modify the pressure drop due to friction, responsible for appropriate modelling. The

modification of interface shear stresses between flow boiling and flow condensation in case of annular flow structure may be considered through incorporation of the so called blowing parameter, which differentiates between these two modes of heat transfer. On the other hand, in case of bubbly flows, the generation of bubbles also modifies the friction pressure drop by the influence of heat flux. Presented are also the results of a peculiar M-shape distribution of heat transfer coefficient specific to flow boiling in minichannels. Finally, some attention is devoted to mathematical modeling of dryout phenomena. A five equation model enabling determination of the dryout location is presented, where the mass balance equations for liquid film, droplets and gas are supplemented by momentum equations for liquid film and two-phase core.

**Heat and Mass Transfer** May 12 2021

Nanofluids and Mass Transfer Aug 15 2021 In the recent decades, efficiency enhancement of refineries and chemical plants has become a focus of research and development groups. Use of nanofluids in absorption, regeneration, liquid-liquid extraction and membrane processes can lead to mass transfer and heat transfer enhancement in processes which results in an increased efficiency in all these processes. Nanofluids and Mass Transfer introduces the role of nanofluids in improving mass transfer phenomena and expressing their characteristics and properties. The book also covers the theory and modelling procedures in details and finally illustrates various applications of Nanofluids in mass transfer enhancement in various processes such as absorption, regeneration, liquid-liquid extraction and membrane processes and how can nanofluids increase mass transfer in processes. Introduces specifications of nanofluids and mechanisms of mass transfer enhancement by nanofluids in various mass transfer processes Discusses mass transfer enhancement in various mass transfer processes such as: absorption, regeneration, liquid-liquid extraction and membrane processes Offers modelling mass transfer and flow in nanofluids Challenges industrialization and scale up of nanofluids

**Heat and Mass Transfer** Mar 10 2021

**Advanced Heat and Mass Transfer** Aug 27 2022 All relevant advanced heat and mass transfer topics in heat conduction, convection, radiation, and multi-phase transport phenomena, are covered in a single textbook, and are explained from a fundamental point of view.

*Principles of Gas-Solid Flows* Oct 25 2019 Gas-solid flows are involved in numerous industrial processes and occur in various natural phenomena. This authoritative book addresses the fundamental principles that govern gas-solid flows and the application of these principles to various gas-solid flow systems. The book is arranged in two parts: Part I deals with basic relationships and phenomena, including particle size and properties, collision mechanics, momentum transfer, heat and mass transfer, basic equations, and intrinsic phenomena in gas-solid flows. Part II discusses gas-solid flow systems of industrial interest such as gas-solid separators, hoppers and standpipes, dense-phase fluidized beds, fluidized beds, pneumatic conveying systems, and heat and mass transfer in fluidization systems. As a comprehensive text on gas-solid flows, which includes end-of-chapter problems, this book is aimed at students, but will also be useful to a broad range of engineers and applied scientists. Solutions manual available.

Transport Phenomena in Heat and Mass Transfer Jul 02 2020 Theoretical, numerical and experimental studies of transport phenomena in heat and mass transfer are reported in depth in this volume. Papers are presented which review and discuss the most recent developments in areas such as: Mass transfer; Cooling of electronic components; Phase change processes; Instrumentation techniques; Numerical methods; Heat transfer in rotating machinery; Hypersonic flows; and Industrial applications. Bringing together the experience of specialists in these fields, the volume will be of interest to researchers and practising engineers who wish to enhance their knowledge in these rapidly developing areas.

**Heat and Mass Transfer** Oct 29 2022 This book provides a solid foundation in the principles of heat and mass transfer and shows how to solve problems by applying modern methods. The basic theory is developed systematically, exploring in detail the solution methods to all important problems. The revised second edition incorporates state-of-the-art findings on heat and mass transfer correlations. The book will be useful not only to upper- and graduate-level students, but also to practicing scientists and engineers. Many worked-out examples and numerous exercises with their solutions will facilitate learning and understanding, and an appendix includes data on key properties of important substances.

**Fundamentals of Heat and Mass Transfer** Oct 05 2020

Heat-Mass Transfer and Geodynamics of the Lithosphere Oct 17 2021 This volume is devoted to investigation of all aspects of heat-mass transfer processes at different scales and from various origins, as well as the formation and evolution of geological structures. These phenomena are linked to geophysical properties of rocks, geothermal resources, geothermics, fluid dynamics, stress-state of the lithosphere, deep geodynamics, plate tectonics, and seismicity, among others. The book consists of two main parts. The first concerns heat-mass transfer associated with natural and technogenic processes in the upper lithosphere. The second deals with geodynamics and seismicity. The collection of over 25 chapter from leading investigators in Russia is thus an important contribution to research on the lithosphere in connection with formation and evolution of geological structures; heat and mass transfer processes in the lithosphere and their connection with deep Earth geodynamics. Collects a range of research methodologies including application of modelling, seismic tomography, geological field works, geological-geophysical methods, and in situ measurements through instrumentation; Explains how a wide range of geological and geophysical phenomena arising in the Earth's lithosphere can be investigated under the umbrella of a common approach to heat-mass transfer processes; Includes the latest research by more than 60 leading scientists from Russia.

*Fundamentals of Heat and Mass Transfer* Mar 22 2022 Fundamentals of Heat and Mass Transfer is written as a text book for senior undergraduates in engineering colleges of Indian universities, in the departments of Mechanical, Automobile, Production, Chemical, Nuclear and Aerospace Engineering. The book should also be useful as a reference book for practising engineers for whom thermal calculations and understanding of heat transfer are necessary, for example, in the areas of Thermal Engineering, Metallurgy, Refrigeration and Airconditioning, Insulation etc.

*Fundamentals of Heat Transfer* Apr 30 2020

**Basic Heat and Mass Transfer** Feb 09 2021 The Third Edition of Basic Heat and Mass Transfer offers complete coverage for introductory engineering courses on heat and mass transfer. Carefully ordered material renders this textbook reader-friendly and accessible to engineering students and instructors. The book includes an extensive introduction to heat exchanger design. Includes over 1,000 exercises and examples plus companion software.

**Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts** Apr 23 2022 Conjugate Heat and Mass Transfer in Heat Mass Exchanger Ducts bridges the gap between fundamentals and recent discoveries, making it a valuable tool for anyone looking to expand their knowledge of heat exchangers. The first book on the market to cover conjugate heat and mass transfer in heat exchangers, author Li-Zhi Zhang goes beyond the basics to cover recent advancements in equipment for energy use and environmental control (such as heat and moisture recovery ventilators, hollow fiber membrane modules for humidification/dehumidification, membrane modules for air purification, desiccant wheels for air dehumidification and energy recovery, and honeycomb desiccant beds for heat and moisture control). Explaining the data behind and the applications of conjugated heat and mass transfer allows for the design, analysis, and optimization of heat and mass exchangers. Combining this recently discovered data into one source makes it an invaluable reference for professionals, academics, and other interested parties. A research-based approach emphasizing numerical methods in heat mass transfer Introduces basic data for exchangers' design (such as friction factors and the Nusselt/Sherwood numbers), methods to solve conjugated problems, the modeling of various heat and mass exchangers, and more The first book to include recently discovered advancements of mass transfer and fluid flow in channels comprised of new materials Includes illustrations to visually depict the book's key concepts

**Modelling of Convective Heat and Mass Transfer in Rotating Flows** Nov 25 2019 This monograph presents results of the analytical and numerical modeling of convective heat and mass transfer in different rotating flows caused by (i) system rotation, (ii) swirl flows due to swirl generators, and (iii) surface curvature in turns and bends. Volume forces (i.e. centrifugal and Coriolis forces), which influence the flow pattern, emerge in all of these rotating flows. The main part of this work deals with rotating flows caused by system rotation, which includes several rotating-disk configurations and straight pipes rotating about a parallel axis. Swirl flows are studied in some of the configurations mentioned above. Curvilinear flows are investigated in different geometries of two-pass ribbed and smooth channels with 180° bends. The author demonstrates that the complex phenomena of fluid flow and convective heat transfer in rotating flows can be successfully simulated using not only the universal CFD methodology, but in certain cases by means of the integral methods, self-similar and analytical solutions. The book will be a valuable read for research experts and practitioners in the field of heat and mass transfer.

**An Introduction to Mass and Heat Transfer** Sep 23 2019 This highly recommended book on transport phenomena shows readers how to develop mathematical representations (models) of physical phenomena. The key elements in model development involve assumptions about the physics, the application of basic physical

principles, the exploration of the implications of the resulting model, and the evaluation of the degree to which the model mimics reality. This book also expose readers to the wide range of technologies where their skills may be applied.

**Heat and Mass Transfer in Metallurgical Systems** Jan 28 2020

**Heat and Mass Transfer** Sep 16 2021 Written with the third-year engineering students of undergraduate level in mind, this well set out textbook explains the fundamentals of Heat and Mass Transfer. Written in question-answer form, the book is precise and easy to understand. The book presents an exhaustive coverage of the theory, definitions, formulae and examples which are well supported by plenty of diagrams and problems in order to make the underlying principles more comprehensive. In the present second edition, the book has been thoroughly revised and enlarged. The chapter on steady state one-dimensional heat conduction has been modified to include problems on two-dimensional heat conduction. Finite heat difference method of solving such problems has been covered. Modification has also been included in the text as per the suggestions obtained from various sources. Additional typical problems based on the examination papers of various technical universities have been included with solutions for easy understanding by the students.

**Applications of Heat, Mass and Fluid Boundary Layers** Sep 04 2020 Applications of Heat, Mass and Fluid Boundary Layers brings together the latest research on boundary layers where there has been remarkable advancements in recent years. This book highlights relevant concepts and solutions to energy issues and environmental sustainability by combining fundamental theory on boundary layers with real-world industrial applications from, among others, the thermal, nuclear and chemical industries. The book's editors and their team of expert contributors discuss many core themes, including advanced heat transfer fluids and boundary layer analysis, physics of fluid motion and viscous flow, thermodynamics and transport phenomena, alongside key methods of analysis such as the Merk-Chao-Fagbenle method. This book's multidisciplinary coverage will give engineers, scientists, researchers and graduate students in the areas of heat, mass, fluid flow and transfer a thorough understanding of the technicalities, methods and applications of boundary layers, with a unified approach to energy, climate change and a sustainable future. Presents up-to-date research on boundary layers with very practical applications across a diverse mix of industries Includes mathematical analysis to provide detailed explanation and clarity Provides solutions to global energy issues and environmental sustainability

**A Textbook of Heat and Mass Transfer [Concise Edition]** Jun 01 2020 “A Textbook of Heat and Mass Transfer” is a comprehensive textbook for the students of Mechanical Engineering and a must-buy for the aspirants of different entrance examinations including GATE and UPSC. Divided into 4 parts, the book delves into the subject beginning from Basic Concepts and goes on to discuss Heat Transfer (by Convection and Radiation) and Mass Transfer. The book also becomes useful as a question bank for students as it offers university as well as entrance exam questions with solutions.

**Heat and Mass Transfer in Capillary-Porous Bodies** Apr 11 2021 Heat and Mass Transfer in Capillary-Porous Bodies describes the modern theory of heat and mass transfer on the basis of the thermodynamics of irreversible processes. This book provides a systematic

account of the phenomena of heat and mass transfer in capillary-porous bodies. Organized into 10 chapters, this book begins with an overview of the processes of the transfer of heat and mass of a substance. This text then examines the application of the theory to the investigation of heat and mass exchange in walls and in technological processes for the manufacture of building materials. Other chapters consider the thermal properties of building materials by using the methods of the thermodynamics of mass transfer. The final chapter deals with the method of finite differences, which is applicable to the solution of problems of non-steady heat conduction. This book is a valuable resource for scientists, post-graduate students, engineers, and students in higher educational establishments for architectural engineering.

**Mass Transfer** Aug 23 2019 This book covers a wide variety of topics related to advancements in different stages of mass transfer modelling processes. Its purpose is to create a platform for the exchange of recent observations, experiences, and achievements. It is recommended for those in the chemical, biotechnological, pharmaceutical, and nanotechnology industries as well as for students of natural sciences, technical, environmental and employees in companies which manufacture machines for the above-mentioned industries. This work can also be a useful source for researchers and engineers dealing with mass transfer and related issues.

**Nanofluid Heat and Mass Transfer in Engineering Problems** Jun 13 2021 In the present book, nanofluid heat and mass transfer in engineering problems are investigated. The use of additives in the base fluid like water or ethylene glycol is one of the techniques applied to augment heat transfer. Newly, innovative nanometer-sized particles have been dispersed in the base fluid in heat transfer fluids. The fluids containing the solid nanometer-sized particle dispersion are called "nanofluids." At first, nanofluid heat and mass transfer over a stretching sheet are provided with various boundary conditions. Problems faced for simulating nanofluids are reported. Also, thermophysical properties of various nanofluids are presented. Nanofluid flow and heat transfer in the presence of magnetic field are investigated. Furthermore, applications for electrical and biomedical engineering are provided. Besides, applications of nanofluid in internal combustion engine are provided.

**Nanofluids for Heat and Mass Transfer** Sep 28 2022 Nanofluids for Heat and Mass Transfer: Fundamentals, Sustainable Manufacturing and Applications presents the latest on the performance of nanofluids in heat transfer systems. Dr. Bharat Bhanvase investigates characterization techniques and the various properties of nanofluids to analyze their efficiency and abilities in a variety of settings. The book moves through a presentation of the fundamentals of synthesis and nanofluid characterization to various properties and applications. Aimed at academics and researchers focused on heat transfer in energy and engineering disciplines, this book considers sustainable manufacturing processes within newer energy harvesting technologies to serve as an authoritative and well-rounded reference. Highlights the major elements of nanofluids as an energy harvesting fluid, including their preparation methods, characterization techniques, properties and applications Includes valuable findings and insights from numerical and computational studies Provides nanofluid researchers with research inspiration to discover new applications and further develop technologies

**Heat and Mass Transfer** Jan 08 2021 "Heat and mass transfer is a basic science that deals with the rate of transfer of thermal energy. It is an exciting and fascinating subject with unlimited practical applications ranging from biological systems to common household appliances, residential and commercial buildings, industrial processes, electronic devices, and food processing. Students are assumed to have an adequate background in calculus and physics"--

Fundamentals of Heat and Mass Transfer Jul 26 2022 This title provides a complete introduction to the physical origins of heat and mass transfer while using problem solving methodology. The systematic approach aims to develop readers confidence in using this tool for thermal analysis.

**Heat and Mass Transfer** Nov 18 2021 This book is designed to serve as a basic text for the undergraduate course in Heat and Mass Transfer. The book follows the classical pattern treating the subject from both analytical and numerical view points. Throughout the text, emphasis has been place.

*Heat and Mass Transfer* Jul 22 2019 This substantially revised text represents a broader based biological engineering title. It includes medicine and other applications that are desired in curricula supported by the American Society of Agricultural and Biological Engineers, as well as many bioengineering departments in both U.S. and worldwide departments. This new edition will focus

*Heat and Mass Transfer in Building Services Design* May 24 2022 Building design is increasingly geared towards low energy consumption. Understanding the fundamentals of heat transfer and the behaviour of air and water movements is more important than ever before. *Heat and Mass Transfer in Building Services Design* provides an essential underpinning knowledge for the technology subjects of space heating, water services, ventilation and air conditioning. This new text: \*provides core understanding of heat transfer and fluid flow from a building services perspective \*complements a range of courses in building services engineering \*underpins and extends the themes of the author's previous books: *Heating and Water Services Design in Buildings*; *Energy Management and Operational Costs in Buildings* *Heat and Mass Transfer in Building Services Design* combines theory with practical application for building services professional and students. It will also be beneficial to technicians and undergraduate students on courses in construction and mechanical engineering.

*Fundamentals of Momentum, Heat, and Mass Transfer* Jan 20 2022 *Fundamentals of Momentum, Heat and Mass Transfer, Revised, 6th Edition* provides a unified treatment of momentum transfer (fluid mechanics), heat transfer and mass transfer. The new edition has been updated to include more modern examples, problems, and illustrations with real world applications. The treatment of the three areas of transport phenomena is done sequentially. The subjects of momentum, heat, and mass transfer are introduced, in that order, and appropriate analysis tools are developed.

**A HEAT TRANSFER TEXTBOOK** Dec 07 2020

*Numerical Analysis of Heat and Mass Transfer in Porous Media* Mar 30 2020 The purpose of 'Numerical Analysis of Heat and Mass Transfer in Porous Media' is to provide a collection of recent contributions in the field of computational heat and mass transfer in porous media. The main benefit of the book is that it discusses the majority of

the topics related to numerical transport phenomenon in engineering (including state-of-the-art and applications) and presents some of the most important theoretical and computational developments in porous media and transport phenomenon domain, providing a self-contained major reference that is appealing to both the scientists, researchers and the engineers. At the same time, these topics encounter of a variety of scientific and engineering disciplines, such as chemical, civil, agricultural, mechanical engineering, etc. The book is divided in several chapters that intend to be a resume of the current state of knowledge for benefit of professional colleagues.

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