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Heat and Mass Transfer Universities Press

Issues in Mechanical Engineering / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Mechanical Engineering. The editors have built Issues in Mechanical Engineering: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Mechanical Engineering in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Mechanical Engineering: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

Innovations in Energy, Power and Thermal Engineering VEDALAKSHMI

This book gathers selected papers from the 16th UK Heat Transfer Conference (UKHTC2019), which is organised every two years under the aegis of the UK National Heat Transfer Committee. It is the premier forum in the UK for the local and international heat transfer community to meet, disseminate ongoing work, and discuss the latest advances in the heat transfer field. Given the range of topics discussed, these proceedings offer a valuable asset for engineering researchers and postgraduate students alike.

Issues in Water and Power Engineering: 2011 Edition PHI Learning Pvt. Ltd.

This book presents the select proceedings of International Conference on Innovations in Thermo-Fluid Engineering and Sciences (ICITFES 2020). It covers the theoretical and experimental research works carried out in the field of energy and power

engineering. Various topics covered include fluid mechanics, gas turbines and dynamics, heat transfer, humidity and control, multiphase flow, ocean engineering, power and energy, refrigeration and air conditioning, renewable energy, and thermodynamics. The book will be helpful for the researchers, scientists, and professionals working in the field of energy, power engineering, and thermal engineering.

Thermal Engineering Springer

THIS BOOK IS INTENDED FOR ENGINEERING STUDENTS AND PRACTICING ENGINEERS

First Course in Heat Transfer New Age International

Issues in Mechanical Engineering / 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Lubrication Technology. The editors have built Issues in Mechanical Engineering: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Lubrication Technology in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Mechanical Engineering: 2012 Edition has been produced by the world ' s leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at http://www.ScholarlyEditions.com/.

A Textbook of Heat and Mass Transfer [Concise Edition] Chandresh Agrawal

The book is a collection of peer-reviewed scientific papers submitted by active researchers in the International Conference on Industry Interactive Innovation in Science, Engineering and Technology (I3SET 2016). The conference is a collective initiative of all departments and disciplines of JIS College of Engineering (an autonomous institution), Kalyani, West Bengal, India. The primary objective of the conference is to strengthen interdisciplinary research and encourage innovation in a demand-driven way as desired by the industry for escalating technology for mankind. A galaxy of academicians, professionals, scientists, industry people and researchers from different parts of the country and abroad shared and contributed their knowledge. The major areas of I3SET 2016 include nonconventional energy and advanced power systems; nanotechnology and applications; pattern recognition and machine intelligence; digital signal and image processing; modern instrumentation, control, robotics and automation; civil engineering and structural design; real-time and embedded systems, communication and devices; advanced optimization techniques; biotechnology, biomedical instrumentation and bioinformatics; and outcome based education.

Heat and Mass Transfer Springer

"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

Heat and Mass Transfer Jones & Bartlett Learning

Heat and Mass Transfer is designed for the core paper on Heat and Mass Transfer for the undergraduate students of mechanical engineering, and offers theory in brief, detailed derivations, plenty of examples and numerous exercise problems. This unique approach helps students apply principles to applications.

HEAT AND MASS TRANSFER FOR KTU Pearson Education India

This book contains solved problems in heat transfer for Chemical and Mechanical Engineering students.Problems selected are as per the the syllabus followed in most of the Institutes and Universities

Engineering Thermodynamics Springer Nature

Most scientists and engineers are familiar with the name Josef Stefan primarily from the Stefan-Boltzmann law, which relates the amount of energy transferred by radiation to the absolute temperature raised to the fourth power. Stefan determined this law from experimental data, and it was later theoretically verified by his former student, Ludwig Boltzmann. However, it is interesting to know that this is the same Stefan who lent his name to the solid-liquid phase change problem, and concepts related to molecular diffusion and convective motion driven by surface evaporation or ablation. Stefan counted among his students Sigmund Freud, who was so inspired by his physics instructor that he incorporated scientific methods into psychoanalysis. This invaluable book details not only Josef Stefan ' s original contributions in these areas, but the current state-of-the-art of his pioneering work.

CONVECTION HEAT TRANSFER, 3RD ED Anshan Pub

The Presentation Adopted In The Preparation Endeavors To Convey To The Student In A Simple Manner, A Physical Understanding Of The Processes By Which Heat Is Transmitted And Provide Him Or Her With The Tools Necessary To Get Quantitative Solutions To Engineering Problems Involving One Or More Of The Basic Modes Of Heat Flow. Sufficient Material Has Been Included In The Text To Cater To The Requirements Of The Undergraduate Curriculum. Illustrations Pertaining To The Different Modes Of Heat Transfer And The Design Calculations Of Heat Exchangers Have Been Liberally Included In The Text.The Purpose Of This Book Is To Present A Basic Introduction To The Field Of Engineering Heat Transfer. The Book Begins With A Brief Presentation Of The Importance Of Heat Transfer In Chemical And Processing Industry And The Modes Of Heat Transfer. Chapter 2, Dealing With Conduction, Includes A Few Aspects Of Conduction Phenomenon, Analogy Between Heat Flow And Electricity Flow, Critical Thickness And Conduction With Internal Generation Of Heat. In Chapter 3, The Concept Of Film Coefficients Is Presented And The Relationship Between The Individual And Overall Heat Transfer Coefficients Are Dealt With. The Phenomenon Of Unsteady State Heat Transfer And The Methods Of Solving One Dimensional Transient Heat Conduction Problems Have Been Discussed In Chapter 4, Which Is On Unsteady State Heat Conduction. Also The Application Of Molecular Transport Theory To The Unsteady State Heat Conduction Is Included.In Chapter 5, Which Is On Convection, A General Basic Concept, The Application Of Dimensional Analysis In The Case Of Forced And Free Convection, The Heat Transfer From Fins, The Heat Transfer To Fluids In Laminar Flow Inside Tubes, Heat Transfer From Condensed Vapours And Boiling Heat Transfer Are Included. The Various Types Of Heat Exchangers, The Concept Of Capacity Ratios, The Effectiveness Of Heat Exchanger, The Log Mean Temperature Difference, The Number Of Transfer Units (Ntu) And Calculations Pertaining To Heat Exchanger Design And The Effectiveness-Ntu Relationship Have Been Discussed In Chapter 6, Which Bears The Title 'Industrial Heat Exchange Equipment'.In Chapter 7, Which Is On Thermal Energy Transfer By Radiation, The Basic Concepts And Theory Of Radiation Are Presented. In Chapter 8, Which Deals With Evaporation, The Basic Concepts And Definitions, Boiling Point Elevation, Types Of Evaporators, Single And Multiple Effect Evaporation, The Occurrence Of Heat Transfer

In Evaporators And The Analysis Of Performance Calculations Of Multiple Effect Evaporators Are Discussed At Some Length. Chapter 9, The Final Chapter, Presents A Brief Review Of Heat Transfer Principles.

Heat and Mass Transfer: Pearson Education India

The Aim Of This Book Is To Present To The Students, Teachers And Practising Engineers, A Comprehensive Collection Of Various Material Property Data And Formulae In The Field Of Heat And Mass Transfer. The Material Is Organized In Such A Way That A Reader Who Has Gone Through The Engineering Curriculum Could Easily Use The Formulae And Data Presented In Heat Transfer Calculations. Hence, This Compilation Is Primarily Intended As An Adjunct To A Standard Text.The Data Book Devotes Considerable Space To The Property Values Of Materials Solids, Liquids And Gases That Are Commonly Used In Heat Transfer Situations. Property Values For Various Materials At Different Temperatures Are Given For The Use Of Designers.The Formulae For Conduction, Convection, Radiation, Boiling, Condensation, Freezing, Melting, Heat Exchangers And Mass Transfer Are Arranged In An Easily Usable Tabular Form With Symbols And Units Explained Alongside. The Limitations And Restrictions In The Use Of Empirical Relationships Are Also Mentioned Alongside. The Empirical Formulae And Charts Have Been Selected.Suggestions Received Since The Appearance Of The Fifth Edition Have Been Incorporated, As Far As Possible, In The New Edition. A Number Of Charts And Data Have Been Added To Enhance The Value Of The Book. The Presentation On Convection Has Been Enlarged, Taking Into Account The Recent Publications. This Book Is A Comprehensive Collection Of Heat Transfer Information In Si Units For Students And Practitioners.

Heat and Mass Transfer Pearson Education India

The book covers various topics of heat transfer. It explains and analyzes several techniques and modes of heat transfer such as conduction in stationary media, convection in moving media and also by radiation. It is primarily a text book useful for undergraduate and postgraduate students. The book should also interest practicing engineers who wish to refresh their knowledge in the field. The book presents the various topics in a systematic way starting from first principles. The topics are developed to a fairly advanced level towards the end of each chapter. Several worked examples illustrate the engineering applications of the basic modeling tools developed in the text. The exercises at the end of the book are arranged chapter wise and challenge the reader to tackle typical real-life problems in heat transfer. This book will be of potential use for students of mechanical engineering, chemical engineering and metallurgy in most engineering colleges.

FUNDAMENTALS OF HEAT AND MASS TRANSFER New Age International

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 Transfer in High Technology and Power Engineering BoD – Books on Demand

Heat Transfer is a compulsory core course in the curriculum of almost all branches of engineering in several engineering and technical institutions and universities. An outcome of the lecture notes prepared by the author, this book has been prepared primarily for an introductroy course in Heat and Mass Transfer.

Issues in Mechanical Engineering: 2012 Edition Alpha Science Int'l Ltd.

This Brief stands as a primer for heat transfer

fundamentals in heat transfer enhancement devices, the definition of heat transfer area, passive and active enhancement techniques and their potential and benefits and commercial applications. It further examines techniques and modes of heat transfer like single-phase flow and two-phase flow, natural and forced convection, radiation heat transfer and convective mass transfer.

Elements of Heat Transfer S. Chand Publishing

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.

Issues in Mechanical Engineering: 2011 Edition I. K. International Pvt Ltd

Engineering Thermodynamics has been designed for students of all branches of engineering specially undergraduate students of Mechanical Engineering. The book will also serve as reference manual for practising engineers. The book has been written in simple language and systematically develops the concepts and principles essential for understanding the subject. The text has been supplemented with solved numerical problems, illustrations and question banks. The present book has been divided in five parts: Thermodynamic Laws and Relations Properties of Gases and Vapours Thermodynamics Cycles Heat Transfer and Heat Exchangers Annexures

A Textbook of Heat and Mass Transfer, 7e John Wiley & Sons

Heat transfer calculations in different aspects of engineering applications are essential to aid engineering design of heat exchanging equipment. Minimizing of computational time is a challenging task faced by researchers and users. Methodology of calculations in some application areas are incorporated in this book, such as differential analysis of heat recoveries with CFD in a tube bank, heating and ventilation of equipment and methods for analytical solution of nonlinear problems. Numerical analysis is the prerequisite of design and for the manufacture of heat exchanging equipment. Some numerical and experimental information are presented with utmost skill. Similarly, the analytical solution of heat transfer is touched in this book. Study of heat transfer phenomena and applications are equally emphasized in this issue.

TNMAWS-Tamil Nadu Municipal Administration and Water Supply Department Assistant Engineer Exam-Mechanical Engineering Practice Sets
ScholarlyEditions

The present text is aimed at giving the students a substantial feel of the fundamentals of heat transfer applied to process industry. Though the introduction of the material is made at the undergraduate level for a first course in Process Heat Transfer', it includes enough advanced material for postgraduate courses on Process Heat Transfer' or Heat Exchangers'. The text starts with summary of single phase heat transfer. Subsequently classification, selection and basic theory of heat transfer equipment are explained. Based on this, traditional heat exchangers as well as stirred tanks are treated in detail. Special emphasis has been laid on plate type heat exchangers. The second part introduces two-phase heat transfer followed by apparatus dealing with phase change such as condensers, evaporators, reboilers and cooling towers. Finally, recent advances in process optimization through pinch technology and energy analysis along with transient response of heat exchangers are introduced. The textbook stresses on design approach.