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The 2008 ASHRAE Handbook--HVAC Systems and Equipment discusses various systems and the equipment (components or assemblies) that comprise them, and describes features and differences. This information helps system designers and operators in selecting and using equipment. It is divided into seven sections: Air-Conditioning and Heating Systems; Air-Handling Equipment and Components; Heating Equipment and Components; Cooling Equipment and Components; General Components; Packaged, Unitary and Split-System Equipment, and General. An accompanying CD-ROM (free with the book"also sold separately) contains all the volume's chapters in both I-P and SI units. Weather Data Viewer Version 4.0 displays climatic design conditions, frequency distributions, joint frequency tables, and summary statistics for dry-bulb, wet-bulb, and dew-point temperatures plus wind speed and direction for all 5,564 locations, both international and domestic listed in Chapter 14, Climatic Design Information, of the 2009 ASHRAE Handbook"Fundamentals. The viewer can display the

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tables in numeric form or plot the frequency distribution, the cumulative distribution function, and mean coincident functions. This CD-ROM also provides additional information such as frequency matrices of dry-bulb temperature and time of day (also known as temperature bin data), the time zone and daylight-saving time of the stations, and the months and years used in calculating the design conditions. The data is available in Microsoft Excel spreadsheets and can also be extracted into text format for batch processing using the included `tblxpan` utility. Version 4.0 also provides a new feature "the capability to automatically locate the stations on Google Maps with the included StationFinder utility.

Annotation The 2010 ASHRAE Handbook-Refrigeration covers the refrigeration equipment and systems for applications other than human comfort. This book includes information on cooling, freezing, and storing food; industrial applications of refrigeration; and low-temperature refrigeration. Primarily a reference for the practicing engineer, this volume is also useful for anyone involved in cooling and storage of food products. This edition contains two new chapters, Chapter 3, "Carbon Dioxide Refrigeration Systems" and Chapter 50, "Terminology of Refrigeration."

This revision of ASHRAE's Fundamentals of Psychrometrics self-directed

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learning course book addresses the use of psychrometrics and the psychrometric chart for typical applications and systems. It is intended for HVAC designers of various backgrounds and to be an introduction for those new to psychrometrics. This second edition of the course was rewritten in an attempt to teach the fundamentals of psychrometrics in about half the time as the previous version. The author has used his 41 years of experience in the HVAC industry as the expertise for the format and content. Skill Development Exercises at the end of each chapter help readers assess their understanding of the material and apply what they learn to real-world situations. Answers to these exercises can be submitted online to earn PDH, CEU, or LU credits.

Part I: Process design -- Introduction to design -- Process flowsheet development -- Utilities and energy efficient design -- Process simulation -- Instrumentation and process control -- Materials of construction -- Capital cost estimating -- Estimating revenues and production costs -- Economic evaluation of projects -- Safety and loss prevention -- General site considerations -- Optimization in design -- Part II: Plant design -- Equipment selection, specification and design -- Design of pressure vessels -- Design of reactors and mixers -- Separation of fluids -- Separation columns (distillation, absorption and extraction) -- Specification and design of solids-handling equipment -- Heat transfer equipment

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-- Transport and storage of fluids.

Annotation The 2009 ASHRAE Handbook"Fundamentals covers basic principles and data used in the HVAC & R industry. Updated with research sponsored by ASHRAE and others, this volume includes 1,000 pages and 39 chapters covering general engineering information, basic materials, climate data, load and energy calculations, duct and pipe design, and sustainability, plus reference tables for abbreviations and symbols, I-P to SI conversions, and physical properties of materials. An accompanying CD-ROM (free with the book"also sold separately) contains all the volume's chapters in both I-P and SI units.

The 2012 ASHRAE Handbook--HVAC Systems and Equipment discusses various systems and the equipment (components or assemblies) they comprise, and describes features and differences. This information helps system designers and operators in selecting and using equipment. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units.

Computer Science and Applied Mathematics: Mathematical Methods for Wave Phenomena focuses on the methods of applied mathematics, including equations, wave fronts, boundary value problems, and scattering problems. The publication initially ponders on first-order partial differential equations, Dirac delta function, Fourier transforms, asymptotics, and second-order partial differential equations. Discussions focus on prototype second-order equations, asymptotic expansions, asymptotic expansions of Fourier integrals with monotonic phase,

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method of stationary phase, propagation of wave fronts, and variable index of refraction. The text then examines wave equation in one space dimension, as well as initial boundary value problems, characteristics for the wave equation in one space dimension, and asymptotic solution of the Klein-Gordon equation. The manuscript offers information on wave equation in two and three dimensions and Helmholtz equation and other elliptic equations. Topics include energy integral, domain of dependence, and uniqueness, scattering problems, Green's functions, and problems in unbounded domains and the Sommerfeld radiation condition. The asymptotic techniques for direct scattering problems and the inverse methods for reflector imaging are also elaborated. The text is a dependable reference for computer science experts and mathematicians pursuing studies on the mathematical methods of wave phenomena. The 2009 ASHRAE Handbook-Fundamentals covers basic principles and data used in the HVAC&R industry. The ASHRAE Technical Committees that prepare these chapters strive not only to provide new information, but also to clarify existing information, delete obsolete materials, and reorganize chapters to make the Handbook more understandable and easier to use. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units. "In handbook form to be useful to practicing engineers and other professionals, this book addresses smoke control design, smoke management, controls, fire and smoke control in transport tunnels, and full scale fire testing. For those getting started with computer models CONTAM and CFAST, there are simplified instructions with examples"--

There are few comprehensive books on the market on the subject of rheology – the complex science dealing with flow and deformation of matter – and these are several years old. At last there is now a book that explains the meaning of a science that many scientists need to use

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but only a few can fully grasp. It does so by striking the balance between oversimplification and overload of theory in a very compelling and readable manner. The author's systematic presentation enables the authors to include all components of rheology in one volume. The first four chapters of this book discuss various aspects of theoretical rheology and, by examples of many studies, show how particular theory, model, or equation can be used in solving different problems. The main emphasis is on liquids, but solid materials are discussed in one full chapter as well. Methods of measurement and raw data treatment are included in one large chapter which constitutes more than one quarter of the book. Eight groups of methods are discussed giving many choices for experimentation and guidance on where and how to use them properly. The final chapter shows how to use rheological methods in different groups of products and methods of their manufacture. Usefulness of chemorheological (rheokinetic) measurements is also emphasized. This chapter continues with examples of purposeful applications in practical matters.

The 2011 ASHRAE Handbook: HVAC Applications comprises over 60 chapters covering a broad range of facilities and topics, and is written to help engineers design and use equipment and systems described in other Handbook volumes. ASHRAE Technical Committees have revised nearly every chapter to cover current requirements, technology, and design practice. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units.

The 2015 ASHRAE Handbook--HVAC Applications comprises more than 60 chapters covering a broad range of facilities and topics, written to help engineers design and use equipment and systems described in other Handbook volumes. Main sections cover

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comfort, industrial, energy-related, general applications, and building operations and management. ASHRAE Technical Committees in each subject area have reviewed all chapters and revised them as needed for current technology and design practice. An accompanying CD-ROM contains all the volume's chapters in both I-P and SI units. This volume is a compilation of data on the properties of glasses. The authors have critically examined and correlated the most reliable data on the properties of multicomponent commercial silicate glasses, vitreous silica, and binary and ternary laboratory glasses. Thermodynamic, thermal, mechanical, electrical, and transport properties are covered. Measurement methods and appropriate theories are also discussed.

Annotation This book provides a thorough introduction and a practical guide to the principles and characteristics of controls, and how to apply them in the use, selection, specification and design of control systems.

The 2014 ASHRAE Handbook--Refrigeration covers the refrigeration equipment and systems for applications other than human comfort. This volume includes data and guidance on cooling, freezing, and storing food; industrial and medical applications of refrigeration; and low-temperature refrigeration. The 2014 ASHRAE

Handbook--Refrigeration CD, in both I-P and SI editions, contains PDFs of chapters easily viewable using Adobe Reader. This product must be installed on user's computer. Product cannot be read directly from CD and is not compatible with mobile

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devices. Opened software cannot be returned for refund or credit.

Annotation The 2016 ASHRAE Handbook-HVAC Systems and Equipment discusses various systems and the equipment (components or assemblies) they comprise, and describes features and differences. This information helps system designers and operators in selecting and using equipment. ASHRAE Technical Committees in each subject area have reviewed all chapters and revised them as needed for current technology and practice. An accompanying CD-ROM contains all the volumes and chapters in both I-P and SI units.

"This manual focuses on the calculation of cooling and heating loads for commercial buildings. The heat balance method (HBM) and radiant time series method (RTSM) (as well as how to implement these methods) are discussed. Heat transfer processes and their analysis, psychrometrics, and heating load calculations are also considered"--

This text focuses on the synthesis, properties and applications of nanostructures and nanomaterials, particularly inorganic nanomaterials. It provides coverage of the fundamentals and processing techniques with regard to synthesis, properties, characterization and applications of nanostructures and nanomaterials.

ASHRAE Handbook, 2009 Fundamentals

Everything that new HVAC & R engineers will be expected to learn, from the leading industry body - ASHRAE.

While the last few decades have witnessed incredible leaps forward in the technology of energy production, technological innovation can only be as transformative as its

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implementation and management allows. The burgeoning fields of renewable, efficient and sustainable energy have moved past experimentation toward realization, necessitating the transition to more sustainable energy management practices. Energy Management is a collective term for all the systematic practices to minimize and control both the quantity and cost of energy used in providing a service. This new book reports from the forefront of the energy struggle in the developing world, offering a guide to implementation of sustainable energy management in practice. The authors provide new paradigms for measuring energy sustainability, pragmatic methods for applying renewable resources and efficiency improvements, and unique insights on managing risk in power production facilities. The book highlights the possible financial and practical impacts of these activities, as well as the methods of their calculation. The authors' guidelines for planning, analyzing, developing, and optimizing sustainable energy production projects provide vital information for the nations, corporations, and engineering firms that must apply exciting new energy technology in the real world. Shows engineering managers and project developers how to transition smoothly to sustainable practices that can save up to 25% in energy costs! Features case studies from around the world, explaining the whys and hows of successes and failures in China, India, Brazil, the US and Europe Covers a broad spectrum of energy development issues from planning through realization, emphasizing efficiency, scale-up of renewables and risk mitigation Includes software on a companion website to make calculating efficiency gains quick and simple

"Provides in-depth design recommendations and proven, cost effective, and reliable solutions for health care HVAC design that provide low maintenance cost and high reliability based on

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best practices from consulting and hospital engineers with decades of experience in the design, construction, and operation of health care facilities"--

The 2007 ASHRAE Handbook--HVAC Applications covers a broad range of facilities and topics, and is written to help engineers design and use equipment and systems described in other Handbook volumes. ASHRAE Technical Committees have revised nearly every chapter for current requirements and techniques. It is divided into five sections: Comfort Applications, Industrial Applications, Energy-Related Applications, Building Operations and Management, and General Applications. This book provides background information to designers new to a given application as well as those needing a refresher on the topic. An accompanying CD-ROM (free with the book"also sold separately) contains all the volume's chapters in both I-P and SI units.

Most of the shaping in the manufacture of polymeric objects is carried out in the melt state, as it is a substantial part of the physical property development. Melt processing involves an interplay between fluid mechanics and heat transfer in rheologically complex liquids, and taken as a whole it is a nice example of the importance of coupled transport processes. This book is on the underlying foundations of polymer melt processing, which can be derived from relatively straightforward ideas in fluid mechanics and heat transfer; the level is that of an advanced undergraduate or beginning graduate course, and the material can serve as the text for a course in polymer processing or for a second course in transport processes.

* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook * Provide essential, up-to-date HVAC data, codes, standards,

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and guidelines, all conveniently located in one volume * A definitive reference source on the design, selection and operation of A/C and refrigeration systems

"Updates the second edition to provide readers a reference that agrees with the latest international standards. The third edition also includes a revised equation for the adiabatic saturation process, an summary of the 2009 RP-1485 ASHRAE research, as well as minor edits to the text"

Basic Optics: Principles and Concepts addresses in great detail the basic principles of the science of optics, and their related concepts. The book provides a lucid and coherent presentation of an extensive range of concepts from the field of optics, which is of central relevance to several broad areas of science, including physics, chemistry, and biology. With its extensive range of discourse, the book's content arms scientists and students with knowledge of the essential concepts of classical and modern optics. It can be used as a reference book and also as a supplementary text by students at college and university levels and will, at the same time, be of considerable use to researchers and teachers. The book is composed of nine chapters and includes a great deal of material not covered in many of the more well-known textbooks on the subject. The science of optics has undergone major changes in the last fifty years because of developments in the areas of the optics of metamaterials, Fourier optics, statistical optics, quantum optics, and nonlinear optics, all of which find their place in this book, with a clear presentation of their basic principles. Even the more traditional areas of ray optics and wave optics are elaborated within the framework of electromagnetic theory, at a level more fundamental than what one finds in many of the currently available textbooks. Thus, the eikonal approximation leading to ray optics, the Lagrangian and Hamiltonian formulations of

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ray optics, the quantum theoretic interpretation of interference, the vector and dyadic diffraction theories, the geometrical theory of diffraction, and similar other topics of basic relevance are presented in clear terms. The presentation is lucid and elegant, capturing the essential magic and charm of physics. All this taken together makes the book a unique text, of major contemporary relevance, in the field of optics. Avijit Lahiri is a well-known researcher, teacher, and author, with publications in several areas of physics, and with a broad range of current interests, including physics and the philosophy of science. Provides extensive and thoroughly exhaustive coverage of classical and modern optics Offers a lucid presentation in understandable language, rendering the abstract and difficult concepts of physics in an easy, accessible way Develops all concepts from elementary levels to advanced stages Includes a sequential description of all needed mathematical tools Relates fundamental concepts to areas of current research interest

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