

236 9 Ashrae Handbook 2003

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written and edited by a team of specialists at max fordham llp one of the uk s leading environmental and building services engineering consultancies environmental design is the result of their extensive experience in designing

environmentally friendly buildings the principles of their approach which they have taught in numerous schools of architecture and engineering are clearly presented here the book starts with some basic scientific principles and environmental issues and then moves on to site planning energy use materials and building form natural ventilation systems high efficiency mechanical equipment and alternative energy sources are also covered state of the art buildings of exceptional quality are incorporated throughout the text and illustrate the authors belief that environmentally responsible architecture can be visually exciting they conclude with a selection of detailed case studies of award winning projects including new for this third edition beaufort court king s langley and the national trust headquarters swindon this book is essential reading for architects engineers planners and students of these disciplines

heating ventilating and air conditioning completely revised with the latest hvac design practices based on the most recent standards from ashrae this sixth edition provides complete and up to date coverage of all aspects of heating ventilation and air conditioning you ll find the latest load calculation procedures indoor air quality procedures and issues related to ozone depletion throughout the text numerous worked examples clearly show you how to apply the concepts in realistic scenarios in addition several computer programs several new to this edition help you understand key concepts and allow you to simulate various scenarios such as psychometrics and air quality load calculations piping system design duct system design and cooling coil simulation additionally the load calculation program has been revised and updated these computer programs are available at the book s website wiley.com/college/mcquiston key features of the sixth edition additional new worked examples in the text and on the accompanying software chapters 6 9 have been extensively revised for clarity and ease of use chapter 8 the cooling load now includes two approaches the heat balance method as recommended by ashrae and the simpler rts method both approaches include computer applications to aid in calculations provides complete authoritative treatment of all aspects of hvac based on current ashrae standards numerous worked examples and homework problems provide realistic scenarios to apply concepts

this book provides a clear concise presentation of the most significant aspects of indoor air pollution this volume defines a wide range of indoor air quality problems and solutions discussions center around common symptoms and potential environmental and chemical causes health hazards from arts and crafts and from common household products and the impact of common building ventilation problems and how to solve them because it is so easy to waste dollars and time when identifying the causes of an indoor air pollution incident this book presents an expert summary of how to conduct an indoor air pollution survey psychological factors of indoor air pollution problems are characterized and

solutions for solving these problems are discussed the book also covers the role of ergonomic design in office injuries and worker comfort as well as defines causes and solutions of nuisance noise radiation exposure from video display terminals vdt is addressed including topics such as types of radiation and exposure limits

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here is the best single guide to efficient cost effective plant engineering from construction to internal operation maintenance and management of the plant facility with contributions from more than 70 well known leaders in their specialties this new edition of standard handbook of plant engineering offers you state of the art information on the basic plant facility plant operation equipment repair and replacement methods and much more packed with tables formulas charts graphs and checklists the second edition now features greater emphasis on practical hands on information in the areas of maintenance cost control maintenance management and staff training more than 40 new material with all sections revised and updated and software listed for most topics a board of advisors specifically chosen to select new and expanded coverage and both metric and s i units for ease of use in domestic and international markets covering virtually every aspect of modern plant engineering the new edition of this definitive handbook will give you the expertise required to keep manufacturing and service facilities operating at peak productivity

milk is nature s perfect food lacking only iron copper and vitamin c and is highly recommended by nutritionists for building healthy bodies new technologies have emerged in the processing of milk this new volume focuses on the processing of milk by novel techniques emphasizing the conservation of energy and effective methods this book is divided four parts that cover applications of novel processing technologies in the dairy industry novel drying techniques in the dairy industry management systems and hurdles in the dairy industry energy conservation and opportunities in the dairy industry this book presents new information on the technology of ohmic heating for milk pasteurization it goes on to provide an overview of the commercial thermal non thermal technologies and hybrid technologies for milk pasteurization there are non thermal technologies such as pulse light irradiation ultra violet treatment etc that can be used in combination with other technologies for the processing of milk and milk products this hybrid technology can provide multiple benefits such extended shelf life reduced energy costs reduced heat treatment and better organoleptic and sensory properties the book also describes the different aspects of food safety management used in dairy processing the book also looks at recent advances in microwave assisted thermal processing of milk and the effects of microwaves on

microbiological physicochemical and organoleptic properties of processed milk and milk products technological advances in value addition and standardization of the products have been reported but well established processes for mechanized production are recommended in the book for a uniform quality nutritious product produced under hygienic conditions this new volume will be of interest to faculty researchers postgraduate students researchers as well as engineers in the dairy industry

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 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

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