

Location

Design Information

Weather: Auburn, AL, US

outside 99%/1% temps

Winter Design Conditions

Outside db 22 °F
Inside db 70 °F
Design TD 48 °F

Summer Design Conditions

Outside db 93 °F
Inside db 75 °F
Design TD 18 °F
Daily range M
Relative humidity 50 %
Moisture difference 45 gr/lb

thermostat set point (inside)

total heating load
at peak conditions

Heating Summary

Structure	58517 Btuh
Ducts	1713 Btuh
Central vent (0 cfm)	0 Btuh
Humidification	0 Btuh
Piping	0 Btuh
Equipment load	60230 Btuh

Infiltration

Method	Simplified
Construction quality	Average
Fireplaces	0

total house size

	Heating	Cooling
Area (ft²)	3552	3552
Volume (ft³)	37728	37728
Air changes/hour	0.37	0.19
Equiv. AVF (cfm)	233	119

Sensible Cooling Equipment Load Sizing

Structure	34536 Btuh
Ducts	837 Btuh
Central vent (0 cfm)	0 Btuh
Blower	0 Btuh
Use manufacturer's data	n
Rate/swing multiplier	0.98
Equipment sensible load	34665 Btuh

Latent Cooling Equipment Load Sizing

Structure	4388 Btuh
Ducts	367 Btuh
Central vent	0 Btuh
Equipment latent load	4754 Btuh
Equipment total load	39420 Btuh
Req. total capacity at 0.76 SHR	3.7 ton

total cooling load at
peak conditions

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Jack Kyte

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the Jack Kyte text bar.

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Structure in Protein Chemistry Jack Kyte, 2006-11-01 The second edition of Structure in Protein Chemistry showcases the latest developments and innovations in the field of protein structure analysis and prediction The book begins by explaining how proteins are purified and describes methods for elucidating their sequences of amino acids and defining their posttranslational modifications Comprehensive explanations of crystallography and of noncovalent forces ionic interactions hydrogen bonding and the hydrophobic effect act as a prelude to an exhaustive description of the atomic details of the structures of proteins The resulting understanding of protein molecular structure forms the basis for discussions of the evolution of proteins the symmetry of the oligomeric associations that produce them and the chemical mathematical and physical basis of the techniques used to study their structures The latter include image reconstruction nuclear magnetic resonance spectroscopy proton exchange optical spectroscopy electrophoresis covalent cross linking chemical modification immunochemistry hydrodynamics and the scattering of light X radiation and neutrons These procedures are applied to study the folding of polypeptides and the assembly of oligomers Biological membranes and their proteins are also discussed Structure in Protein Chemistry Second Edition bridges the gap between introductory biophysical chemistry courses and research literature It serves as a comprehensive textbook for advanced undergraduates and graduate students in biochemistry biophysics and structural and molecular biology Professionals engaged in chemical biochemical and molecular biological research will find it a useful reference **The Owner-Builder Book** Mark A. Smith, Elaine M. Smith, 2007-05

ASHRAE Journal , 1995 **Photomodulated Optical Reflectance** Janusz Bogdanowicz, 2012-06-26 One of the critical issues in semiconductor technology is the precise electrical characterization of ultra shallow junctions Among the plethora of measurement techniques the optical reflectance approach developed in this work is the sole concept that does not require physical contact making it suitable for non invasive in line metrology This work develops extensively all the fundamental physical models of the photomodulated optical reflectance technique and introduces novel approaches that extend its applicability from dose monitoring towards detailed carrier profile reconstruction It represents a significant breakthrough in junction metrology with potential for industrial implementation **Mechanical Vibration** Haym Benaroya, Mark

Nagurka, Seon Han, 2017-08-29 Mechanical Vibration Analysis Uncertainties and Control Fourth Edition addresses the principles and application of vibration theory Equations for modeling vibrating systems are explained and MATLAB is referenced as an analysis tool The Fourth Edition adds more coverage of damping new case studies and development of the control aspects in vibration analysis A MATLAB appendix has also been added to help students with computational analysis This work includes example problems and explanatory figures biographies of renowned contributors and access to a website providing supplementary resources **Morphology of Crystals** Ichiro Sunagawa, 1988-02-29 The molecular mechanisms underlying the fact that a crystal can take a variety of external forms is something we have come to understand only in the

last few decades This is due to recent developments in theoretical and experimental investigations of crystal growth mechanisms Morphology of Crystals is divided into three separately available volumes Part A contains chapters on roughening transition equilibrium form step pattern theory modern PBC and surface microtopography This part provides essentially theoretical treatments of the problem particularly the solid liquid interface Part B contains chapters on ultra fine particles minerals transition from polyhedral to dendrite theory of dendrite and snow crystals All chapters are written by world leaders in their respective areas and some can be seen as representing the essence of a life's work This is the first English language work which covers all aspects of the morphology of crystals a topic which has attracted top scientific minds for centuries As such it is indispensable for anyone seeking an answer to a question relating to this fascinating problem mineralogists petrologists crystallographers materials scientists workers in solid state physics and chemistry etc In Parts A Fundamentals and B Fine Particles Minerals and Snow equilibrium and kinetic properties of crystals are generally approached from an atomistic point of view In contrast Part C The Geometry of Crystal Growth follows the alternative and complementary geometrical description where bulk phases are considered as continuous media and their interfaces as mathematical surfaces with orientation dependent properties Equations of motion for a crystal surface are expressed in terms of vector and tensor operators working on surface free energy and growth rate both expressed as functions of surface orientation and driving force or affinity for growth This approach emphasizes the interrelation between equilibrium and kinetic behavior Part 1 establishes the theoretical framework Part 2 gives a construction toolbox for explicit analytic functions An extra chapter is devoted to experimental techniques for measuring such functions a new approach to sphere growth experiments The emphasis throughout is on principles and new concepts Audience Advanced readers familiar with traditional aspects of crystal growth theory Can be used as the basis for an advanced course provided supplementation is provided in the areas of atomistic models of the advancing surface diffusion fields etc

Manual of Environmental Microbiology Cindy H. Nakatsu, Robert V. Miller, Suresh D. Pillai, 2016-05-02 The single most comprehensive resource for environmental microbiology Environmental microbiology the study of the roles that microbes play in all planetary environments is one of the most important areas of scientific research The Manual of Environmental Microbiology Fourth Edition provides comprehensive coverage of this critical and growing field Thoroughly updated and revised the Manual is the definitive reference for information on microbes in air water and soil and their impact on human health and welfare Written in accessible clear prose the manual covers four broad areas general methodologies environmental public health microbiology microbial ecology and biodegradation and biotransformation This wealth of information is divided into 18 sections each containing chapters written by acknowledged topical experts from the international community Specifically this new edition of the Manual Contains completely new sections covering microbial risk assessment quality control and microbial source tracking Incorporates a summary of the latest methodologies used to study microorganisms in various environments

Synthesizes the latest information on the assessment of microbial presence and microbial activity in natural and artificial environments The Manual of Environmental Microbiology is an essential reference for environmental microbiologists microbial ecologists and environmental engineers as well as those interested in human diseases water and wastewater treatment and biotechnology

Protein-Ligand Interactions Holger Gohlke, 2012-04-06 Innovative and forward looking this volume focuses on recent achievements in this rapidly progressing field and looks at future potential for development The first part provides a basic understanding of the factors governing protein ligand interactions followed by a comparison of key experimental methods calorimetry surface plasmon resonance NMR used in generating interaction data The second half of the book is devoted to insilico methods of modeling and predicting molecular recognition and binding ranging from first principles based to approximate ones Here as elsewhere in the book emphasis is placed on novel approaches and recent improvements to established methods The final part looks at unresolved challenges and the strategies to address them With the content relevant for all drug classes and therapeutic fields this is an inspiring and often consulted guide to the complexity of protein ligand interaction modeling and analysis for both novices and experts

Intelligent Data Engineering and Automated Learning -- IDEAL 2013 Hujun Yin, Ke Tang, Yang Gao, Frank Klawonn, Minho Lee, Bin Li, Thomas Weise, Xin Yao, 2013-10-16 This book constitutes the refereed proceedings of the 14th International Conference on Intelligent Data Engineering and Automated Learning IDEAL 2013 held in Hefei China in October 2013 The 76 revised full papers presented were carefully reviewed and selected from more than 130 submissions These papers provided a valuable collection of latest research outcomes in data engineering and automated learning from methodologies frameworks and techniques to applications In addition to various topics such as evolutionary algorithms neural networks probabilistic modelling swarm intelligent multi objective optimisation and practical applications in regression classification clustering biological data processing text processing video analysis including a number of special sessions on emerging topics such as adaptation and learning multi agent systems big data swarm intelligence and data mining and combining learning and optimisation in intelligent data engineering

Fluid Flow Phenomena Paolo Orlandi, 2012-12-06 This book deals with the simulation of the incompressible Navier Stokes equations for laminar and turbulent flows The book is limited to explaining and employing the finite difference method It furnishes a large number of source codes which permit to play with the Navier Stokes equations and to understand the complex physics related to fluid mechanics Numerical simulations are useful tools to understand the complexity of the flows which often is difficult to derive from laboratory experiments This book then can be very useful to scholars doing laboratory experiments since they often do not have extra time to study the large variety of numerical methods furthermore they cannot spend more time in transferring one of the methods into a computer language By means of numerical simulations for example insights into the vorticity field can be obtained which are difficult to obtain by measurements This book can be used by graduate as well as undergraduate students while reading books on theoretical fluid

mechanics it teaches how to simulate the dynamics of flow fields on personal computers This will provide a better way of understanding the theory Two chapters on Large Eddy Simulations have been included since this is a methodology that in the near future will allow more universal turbulence models for practical applications The direct simulation of the Navier Stokes equations DNS is simple by finite differences that are satisfactory to reproduce the dynamics of turbulent flows A large part of the book is devoted to the study of homogeneous and wall turbulent flows In the second chapter the elementary concept of finite difference is given to solve parabolic and elliptical partial differential equations In successive chapters the 1D 2D and 3D Navier Stokes equations are solved in Cartesian and cylindrical coordinates Finally Large Eddy Simulations are performed to check the importance of the subgrid scale models Results for turbulent and laminar flows are discussed with particular emphasis on vortex dynamics This volume will be of interest to graduate students and researchers wanting to compare experiments and numerical simulations and to workers in the mechanical and aeronautic industries **Energy**

Research Abstracts ,1992 **Metastable Solids from Undercooled Melts** Dieter Herlach,Dirk Holland-Moritz,Peter Galenko,2006-12-18 This book presents the physical concepts and tools to characterize and describe the formation of metastable solids from undercooled melts Its aim is to facilitate understanding of the development of the science and technology of solidification of melts and to introduce new concepts within this exciting research field in order to fulfil the challenges of the future in the field of undercooled melts A comprehensive description of the science and applications of the undercooling phenomenon is given It is composed of several main parts experimental techniques for undercooling characterization of the undercooled melt as the first step in rapid solidification introducing the concepts of modern theories of rapid dendrite and eutectic growth and their comparison with experimental results and a survey of metastable materials formed from the non equilibrium state of an undercooled melt Showing clear links to possible application of results obtained from basic research The subject matter is multidisciplinary and will be of interest to material scientists physicists physical chemists mechanical and electrical engineers Advanced Image and Video Processing Using MATLAB Shengrong

Gong,Chunping Liu,Yi Ji,Baojiang Zhong,Yonggang Li,Husheng Dong,2018-08-21 This book offers a comprehensive introduction to advanced methods for image and video analysis and processing It covers deraining dehazing inpainting fusion watermarking and stitching It describes techniques for face and lip recognition facial expression recognition lip reading in videos moving object tracking dynamic scene classification among others The book combines the latest machine learning methods with computer vision applications covering topics such as event recognition based on deep learning dynamic scene classification based on topic model person re identification based on metric learning and behavior analysis It also offers a systematic introduction to image evaluation criteria showing how to use them in different experimental contexts The book offers an example based practical guide to researchers professionals and graduate students dealing with advanced problems in image analysis and computer vision Applied Mechanics Reviews ,1965 **Applications of Phase Diagrams in**

Metallurgy and Ceramics Gesina C. Carter,1978 **Air-conditioning System Design Manual** Walter T. Grondzik,2007

The Air Conditioning Manual assists entry level engineers in the design of air conditioning systems It is also usable in conjunction with fundamental HVAC R resource material as a senior or graduate level text for a university course in HVAC system design The manual was written to fill the void between theory and practice to bridge the gap between real world design practices and the theoretical calculations and analytical procedures or on the design of components This second edition represents an update and revision of the manual It now features the use of SI units throughout updated references and the editing of many illustrations Helps engineers quickly come up with a design solution to a required air conditioning system Includes issues from comfort to cooling load calculations New sections on Green HVAC systems deal with hot topic of sustainable buildings **Computational Intelligence: Theories, Applications and Future Directions - Volume II**

Nishchal K. Verma,A. K. Ghosh,2018-09-01 This book presents selected proceedings of ICCI 2017 discussing theories applications and future directions in the field of computational intelligence CI ICCI 2017 brought together international researchers presenting innovative work on self adaptive systems and methods This volume covers the current state of the field and explores new open research directions The book serves as a guide for readers working to develop and validate real time problems and related applications using computational intelligence It focuses on systems that deal with raw data intelligently generate qualitative information that improves decision making and behave as smart systems making it a valuable resource for researchers and professionals alike **NBS Special Publication** ,1978 An Introduction to Computational Fluid Dynamics Henk Kaarle Versteeg,Weeratunge Malalasekera,2007 This book presents the fundamentals of computational fluid dynamics for the novice It provides a thorough yet user friendly introduction to the governing equations and boundary conditions of viscous fluid flows and its modelling **Proceedings of the ... International Soil Correlation Meeting (ISCOM).** ,1990

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