

## Chapter 4: COMFORT AND DESIGN STRATEGIES

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### Summary

This chapter presents the concept of thermal comfort, an introduction to climate issues and analysis, and the role of buildings as a mediator between climate and comfort. A building is one of three layers that separate our deep body temperature from the conditions in the external environment; our skin and clothing are the other two layers.

Metabolism, changing in magnitude with activity level, generates heat that must be dissipated to the environment for us to remain healthy and comfortable. A number of bodily response mechanisms regulate the flow of heat from the body core to the skin surface. Heat transfer from the skin to the environment can occur via conduction, convection, radiation, and evaporation. Clothing acts as a mediator between the body and the thermal environment.

Thermal comfort is defined as a “feeling of [thermal] well-being” that can be affected by physical (both personal and environmental) and psychological factors. The importance of psychological factors to building design is emphasized. Physical environmental factors include: air temperature, air motion, relative humidity, and surface temperatures (or radiation). Localized comfort effects are described. ASHRAE comfort recommendations (via Standard 55-2004) are reviewed, with a caution that they tend to downplay the psychological factors. Comfort standards (bioclimatic) that may be more applicable to the design of passive buildings are introduced. These standards begin to draw a link between comfort and climate.

Climate is presented as the character of the ambient thermal environment into which a building is placed. Analysis of climate can provide a valuable tool for building design—suggesting how and when a building should modify naturally occurring conditions. Olgyay’s timetables of climatic needs are presented and discussed. Basic design strategies for passive cooling and heating are introduced and linked to climate analysis. Passive cooling strategies include: natural ventilation, high-mass construction, high-mass with night ventilation, and evaporative cooling. Passive heating strategies include: direct gain, indirect gain, and isolated gain approaches. Combined heating and cooling strategies—including daylighting as a valuable adjunct to thermal scheming—are discussed in general terms. Visual and acoustical comfort are noted as being much less holistically developed areas of design than thermal comfort.

### Chapter Outline

- 4.1 The Body
  - (a) Metabolism
  - (b) Heat flow
  - (c) Clothing
- 4.2 Thermal Comfort
  - (a) Comfort standards
  - (b) Passive building comfort standards
  - (c) Localized comfort
- 4.3 Design Strategies for Cooling
  - (a) Natural ventilation cooling
  - (b) High-mass cooling
  - (c) High-mass cooling with night ventilation
  - (d) Evaporative cooling
- 4.4 Design Strategies for Heating
  - (a) Direct gain
  - (b) Indirect gain

# Chapter 1 Design Process

**Zainalabedin Navabi**



## **Chapter 1 Design Process:**

**Mechanical and Electrical Equipment for Buildings** Walter T. Grondzik, Alison G. Kwok, 2019-09-10 The definitive guide to the design of environmental control systems for buildings now updated in its 13th Edition Mechanical and Electrical Equipment for Buildings is the most widely used text on the design of environmental control systems for buildings helping students of architecture architectural engineering and construction understand what they need to know about building systems and controlling a building's environment With over 2 200 drawings and photographs this 13th Edition covers basic theory preliminary building design guidelines and detailed design procedure for buildings of all sizes It also provides information on the latest technologies emerging design trends and updated codes Presented in nine parts Mechanical and Electrical Equipment for Buildings Thirteenth Edition offers readers comprehensive coverage of environmental resources air quality thermal visual and acoustic comfort passive heating and cooling water design and supply daylighting and electric lighting liquid and solid waste and building noise control This book also presents the latest information on fire protection electrical systems and elevator and escalator systems This Thirteenth Edition features Over 2 200 illustrations with 200 new photographs and illustrations All new coverage of high performance building design Thoroughly revised references to codes and standards ASHRAE IES USGBC LEED Living Building Challenge WELL Building Standard and more Updated offering of best in class ancillary materials for students and instructors available via the book's companion website Architect Registration Examination ARE style study questions available in the instructor's manual and student guide Mechanical and Electrical Equipment for Buildings has been the industry standard reference that comprehensively covers all aspects of building systems for over 80 years This Thirteenth Edition has evolved to reflect the ever growing complexities of building design and has maintained its relevance by allowing for the conversation to include why as well as how to **Business Skills All-in-One For Dummies** The Experts at Dummies, 2018-04-17 Find workplace success There are some things that will never go out of style and good business skills are one of them With the help of this informative book you'll learn how to wear multiple hats in the workplace no matter what comes your way without ever breaking a sweat Compiled from eight of the best Dummies books on business skills topics Business Skills All in One For Dummies offers everything you need to hone your abilities and translate them into a bigger paycheck Whether you're tasked with marketing or accounting responsibilities or anything in between this all encompassing reference makes it easier than ever to tackle your job with confidence Manage a successful operation Write more effectively Work on the go with Microsoft Office 365 Deal with marketing accounting and projects with ease If you've ever dreamed about being able to juggle all your work responsibilities without ever dropping the ball the book is for you **Merging the Instructional Design Process with Learner-Centered Theory** Charles M. Reigeluth, Yunjo An, 2020-10-19 Merging the Instructional Design Process with Learner Centered Theory brings together the innovations of two previously divided processes learning design strategies theories and instructional systems development

into a new introductory textbook Using a holistic rather than fragmented approach that includes top level mid level and lower level design this book provides guidance for major topics such as non instructional interventions just in time analysis rapid prototype approaches and learner centered project based anytime anywhere instruction Informed by the authors considerable experience and leadership throughout dramatic shifts in today s learning landscape this book offers the next generation of instructional designers a fresh perspective that synthesizes and pushes beyond the basics of design and development

**Foundations of Interior Design** Susan J. Slotkis, Yelena McLane, 2025-02-20 Foundations of Interior Design 4th Edition introduces the fascinating world of interior design practice The authors provide an overview of the interior design profession introducing readers to the elements and principles of design key historical movements the role of color and lighting in interiors and the increasing emphasis on technology sustainable design social justice and health and safety in contemporary interior design practice This revised edition examines an array of human and environmental considerations in designing residential interiors commercial offices and workspaces and social and community oriented projects reflecting the diverse areas in which interior design is practiced The new edition places greater emphasis on commercial interiors expands on space planning standards includes case studies of recent projects and insightful advice from practicing interior designers

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**Handbook of Research on Trends in Product Design and Development: Technological and Organizational Perspectives** Silva, Arlindo, Simoes, Ricardo, 2010-07-31 This book provides a detailed view on the current issues trends challenges and future perspectives on product design and development an area of growing interest and increasingly recognized importance for industrial competitiveness and economic growth Provided by publisher

**Introduction to Optimum Design** Jasbir Singh Arora, 2004-06-02 Optimization is a mathematical tool developed in the early 1960 s used to find the most efficient and feasible solutions to an engineering problem It can be used to find ideal shapes and physical configurations ideal structural designs maximum energy efficiency and many other desired goals of engineering This book is intended for use in a first course on engineering design and optimization Material for the text has evolved over a period of several years and is based on classroom presentations for an undergraduate core course on the principles of design Virtually any problem for which certain parameters need to be determined to satisfy constraints can be formulated as a design optimization problem The concepts and methods described in the text are quite general and applicable to all such formulations Inasmuch the range of application of the optimum design methodology is almost limitless constrained only by the imagination and ingenuity of the user The book describes the basic concepts and techniques with only a few simple applications Once they are clearly

understood they can be applied to many other advanced applications that are discussed in the text Allows engineers involved in the design process to adapt optimum design concepts in their work using the material in the text Basic concepts of optimality conditions and numerical methods are described with simple examples making the material high teachable and learnable Classroom tested for many years to attain optimum pedagogical effectiveness **Designing Successful**

**Products with Plastics** Mark T. MacLean-Blevins,2024-05-03 Designing Successful Products with Plastics Fundamentals of Plastic Part Design 2e provides expert insight into design considerations required to bring a concept product or part through design and ready for production Rather than focusing on design rules and engineering equations used during product development the emphasis of the book is on what the designer needs to consider during the early conceptual visualization stages and in the detailed stages of the design process This fully updated edition features new practical advice on how to design sustainably throughout the book This approach will bridge the gap between the industrial designer tasked with the big picture product design and use and the part designer tasked with the detailed plastic part design for manufacture Useful to both experienced and novice designers this book brings valuable design process information through specific examples enabling designers and engineers in the plastics industry to effectively use the available technical information to successfully design and manufacture new products Brings together the worlds of the plastic part designer and the industrial designer and shows how each impacts the success of a development project Teaches the Four Pillars considerations Materials Processes Tooling and Design required for every design decision to be made during a plastic part design project The interrelationship of these considerations with the sustainability intent for the product being developed is taught and illustrated within this new edition Illustrates the product design process roadmap from creation of the concept through implementation into manufacturing highlighting steps and methods used throughout the process to limit risk and ensure success Includes methods and design project management techniques used to ensure an efficient design process and successful manufacturing of the product or part *Operations Management* R. Dan Reid,Nada R. Sanders,2020-03-31 As the business environment continues to rapidly change Dan Reid and Nada Sanders have developed an integrated approach that makes the introductory OM course accessible and engaging for all business majors Beyond providing a solid foundation this course covers emerging topics like Artificial Intelligence Robotics Data Analytics and Sustainability and gives equal time to strategic and tactical decisions in both service and manufacturing organizations **Verilog Digital System Design** Zainalabedin Navabi,2005-10-24 This rigorous text shows electronics designers and students how to deploy Verilog in sophisticated digital systems design The Second Edition is completely updated along with the many worked examples for Verilog 2001 new synthesis standards and coverage of the new OVI verification library **ZBrush Creature Design** Scott

Spencer,2012-05-08 Zero in on the most cutting edge trend in creature design for film and games ZBrush ZBrush allows you to develop a creature for film and games in realistic 3D format With this book you will learn how to create a unique creature

from start to finish and search for and repair any foreseeable problems Clear instructions guide you through using Photoshop in combination with ZBrush to finely render a creature so you can see how it will appear on screen Experienced ZBrush author and designer Scott Spencer shows you how to start with your concept in ZBrush as a preliminary digital model and then further refine it in Photoshop in order to fabricate a hyperrealistic image Guides you through artistic concepts to visualize your creature Walks you through the process of conceptualizing a creature in ZBrush Details techniques for using Photoshop to refine your design Encourages you to use ZBrush as a sculpting and designing tool and then use Photoshop as a painting and finishing tool ZBrush Creature Design helps you bring your creature concepts to life      **Process Design**

**Principles** Warren D. Seider, J. D. Seader, Daniel R. Lewin, 1999 Accompanied by CD ROM Simulation of process flowsheets

**Organizational Design** Howard M. Vollmer, 1967      Designing Outdoor Environments for Children Lolly Tai, Mary Taylor Haque, Gina K. McLellan, Erin Jordan Knight, 2010-06-30 This unique resource expertly details the design installation and maintenance of sustainable children s landscapes and play yards Numerous case studies cover projects including storybook courtyards music and barnyard gardens nature trails wildlife habitats memorial and edible gardens      Practical

Design and Production of Optical Thin Films Ronald R. Willey, 1996 Discusses the fundamentals equipment materials and processes necessary to produce this film optical coatings successfully The volume demonstrates how to optimize control sensitivity and repeatability of films to achieve desired effects      **Quality by Design** Nicolo Belavendram, 1995 With the

intention of making Taguchi techniques more widely understood this book covers product and process experiments designed to help quality manufacturing design engineers make these products and processes more robust      **The Management and**

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**Conference on Intelligent Systems in Process Engineering** James F. Davis, George Stephanopoulos, Venkat

Venkatasubramanian, 1996      *Inside MicroStation* Frank Conforti, 1991 This easy to use book serves as both a tutorial and a lasting reference guide Covering all of MicroStation s commands in detail it offers practical tips and tricks for increasing efficiency

**Mechanical Engineering** , 1983-06      Testing the Limits of Teams Elizabeth D. Becker-Reems, Daniel G. Garrett, 1994-04-29 Testing the Limits of Teams provides the framework for implementing self managed work teams in a health care setting and is the perfect companion and follow up to Becker Reems Self Managed Work Teams in Health Care Organizations AHA Press 1994 This completely new book illustrates that through shared work and responsibility employees and managers at all levels can devise operate and evaluate new systems for fulfilling organizational goals The authors address and explain the opportunities and pitfalls along the road to self management success and offer numerous cases and examples from teams throughout the health care industry

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