

## 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 Are Forum

**R Bogdan**



## Chapter 1 Design Process Are Forum:

**Verification by Error Modeling** Katarzyna Radecka,Zeljko Zilic,2005-12-17 1 DESIGN FLOW Integrated circuit IC complexity is steadily increasing ICs incorporating hundreds of millions of transistors mega bit memories complicated pipelined structures etc are now in high demand For example Intel Itanium II processor contains more than 200 million transistors including a 3 MB third level cache A billion transistor IC was said to be imminently doable by Intel fellow J Crawford at Microprocessor Forum in October 2002 40 Obviously designing such complex circuits poses real challenges to engineers Certainly no relief comes from the competitive marketplace with increasing demands for a very narrow window of time time to market in engineering a ready product Therefore a systematic and well structured approach to designing ICs is a must Although there are no widely adhered standards for a design flow most companies have their own established practices which they follow closely for in house design processes In general however a typical product cycle includes few milestones An idea for a new product starts usually from an depth market analysis of customer needs Once a window of opportunity is found product requirements are carefully specified Ideally these parameters would not change during the design process In practice initial phases of preparing a design specification are susceptible to potential errors as it is very difficult to grasp all the details in a complex design

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*Defect and Diffusion Forum Vol. 415* Sergiy V. Divinski,2022-04-27 Heat and Mass Transfer and Fatigue Failure in Technical Systems

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