

4 LIGHTING DESIGN CONSIDERATIONS

This chapter, Lighting Design Considerations, and Chapter 5, Applications, discuss the methods and tools needed to produce integrated lighting applications that use advanced sources, luminaires, and controls. This chapter reviews the lighting design process, including issues of lighting quality as well as lighting levels (quantity), and presents a series of nineteen guidelines for designing advanced lighting systems. This chapter also reviews advanced tools and computer programs to assist designers. Chapter 5 provides examples of advanced lighting applications for private offices, open offices, executive offices, classrooms, several types of retail spaces, and an outdoor application. These examples demonstrate how advanced technologies can be integrated (with daylighting in some cases) to produce very efficient and quality applications.

4.1 The Lighting Design (and Redesign) Process

"Design" is the science and art of making things useful to humankind, and lighting design is the application of lighting—including daylight when it is specifically used as source of lighting—to human spaces. Like architecture, engineering and other design professions, lighting design relies on a combination of specific scientific principles, established standards and conventions, and a number of aesthetic, cultural and human factors applied in an artful manner.

In recent years, the field of lighting has been struggling with two prominent forces, *energy efficiency* and *lighting quality*. Just as the profession of lighting design began to emerge, in which the quality of lighting is held in high esteem, energy efficiency also became a concern in the design of buildings. Lighting designers initially faced the choice between attractive, well-lighted spaces and spaces that used a minimum of energy. The last quarter century has seen at least some resolution of this dilemma: dramatic improvements in lighting equipment technology, and maturation of the lighting design profession, each permitting better lighting designs that use less energy than previous practices.

The pursuit of more energy-efficient lighting dominated the lighting field from 1975–1990, creating awkward dilemmas for lighting designers. Fueled by utility rebates and commodity pricing, new lighting systems were designed to use minimum power. Existing lighting systems were "retrofitted" to save energy. Lighting installations of inferior quality were the rule, rather than the exception.

Many see the 1990s as a period in which the quality of lighting made a significant comeback. This was most evident as the new century approached in a new process for lighting design put forth by the Illuminating Engineering Society of North America (IESNA), the major technical association for lighting in North America. IESNA's recommended procedures for lighting design are described in section 3.3.4.

The *Advanced Lighting Guidelines'* mission is to describe lighting technology and techniques in order to encourage advanced designs that provide quality lighting with minimum environmental impact. While the IESNA procedure should generally lead to good quality lighting, it doesn't give energy efficiency and environmental impact a priority. The advanced strategies described in this chapter enhance the IESNA procedure so that it may be used to produce designs that minimize energy use and improve the sustainability of projects.

4.2 Lighting Quantity

4.2.1 Setting Criterion Illumination Levels

The IESNA design procedure described in section 3.3.4 is the most widely used and accepted method for determining lighting levels for applications. The method consists of the following:

- Choose an acceptable illuminance according to categories A through G, with A being the lowest and G being the highest. For instance, the illuminance associated with Category D is 30 footcandles.

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technical and creative aspects of lighting design for beginners and novice designers *IES Lighting Handbook* Illuminating Engineering Society, 1966 Handbook of Human Factors and Ergonomics Methods Neville Anthony Stanton, Alan Hedge, Karel Brookhuis, Eduardo Salas, Hal W. Hendrick, 2004-08-30 Research suggests that ergonomists tend to restrict themselves to two or three of their favorite methods in the design of systems despite a multitude of variations in the problems that they face Human Factors and Ergonomics Methods delivers an authoritative and practical account of methods that incorporate human capabilities and limitations envi *IESNA Lighting Ready Reference* R. Harrold, 2003 **Office Buildings** Pranab Kumar Nag, 2018-12-31 This book brings together concepts from the building environmental behavioural and health sciences to provide an interdisciplinary understanding of office and workplace design Today with changes in the world of work and the relentless surge in technology offices have emerged as the repositories of organizational symbolism denoted by the spatial design of offices physical settings and the built environment architecture urban locale Drawing on Euclidian geometry that quantifies space as the distance between two or more points a body of knowledge on office buildings the concept of office and office space and the interrelationships of spatial and behavioural attributes in office design are elucidated Building and office work related illnesses namely sick building syndrome and ailments arising from the indoor environment and the menace of musculoskeletal disorders are the alarming manifestations that critically affect employee satisfaction morale and work outcomes With a focus on office ergonomics the book brings the discussion on the fundamentals of work design with emphasis on computer workstation users Strategic guidance of lighting systems and visual performance in workplaces are directed for better application of ergonomics and improvement in office indoor environment It discusses the profiles of bioclimatic indoor air quality ventilation intervention lighting and acoustic characteristics in office buildings Emphasis has been given to the energy performance of buildings and contemporary perspectives of building sustainability such as green office building assessment schemes and national and international building related standards and codes Intended for students and professionals from ergonomics architecture interior design as well as construction engineers health care professionals and office planners the book brings a unified overview of the health safety and environment issues associated with the design of office buildings

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