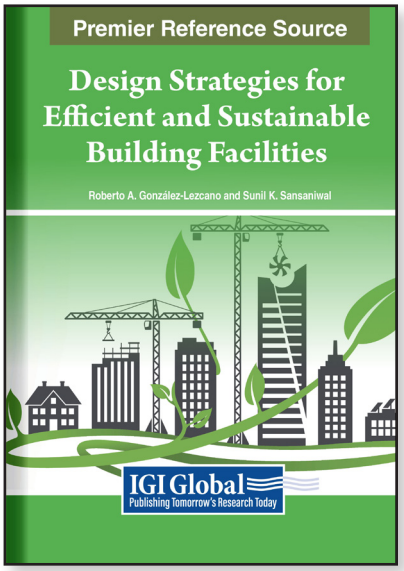
Design Strategies for Efficient and Sustainable Building Facilities

Part of the Practice, Progress, and Proficiency in Sustainability Book Series

Roberto Alonso González-Lezcano (Universidad CEU San Pablo, Spain) and Sunil Kumar Sansaniwal (The Energy and Resources Institute, India)



Description:

Despite the growing emphasis on energy efficiency in building design, our indoor environments often fall short of providing optimal conditions for health and well-being. Indoor air quality, temperature, and lighting levels play crucial roles in occupant health, yet they are frequently overlooked in building practices. This oversight leads to environments that can harm health, contributing to respiratory problems, allergies, and reduced productivity.

Design Strategies for Efficient and Sustainable Building Facilities offers a comprehensive solution. We delve into recent advances in building design, construction, and operation that prioritize energy efficiency and occupant health. By incorporating intelligent sensors, automation systems, and renewable energy sources like solar and wind power, buildings can be transformed into healthy, sustainable spaces that promote well-being.

This book is tailored for researchers, professionals, university professors, and master's and doctoral students who seek to advance sustainable building practices. By exploring topics such as thermal comfort, air quality monitoring, and sustainable materials, readers will gain valuable insights into creating buildings that reduce environmental impact and enhance the health and well-being of occupants. Together, we can reshape the future of building practices, creating environments that nurture both people and the planet.

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Topics Covered:

- Air Pollution
- Air Quality Monitoring
- Building Innovation Systems
- Efficient Interior Lighting Systems
- Energy Efficiency
- Environmental Buildings
- Green Architecture
- Health Outcomes
- Healthy Architecture
- Housing and Health
- Indoor Environment Quality
- Infrasound
- Passive Building Strategies
- Smart Homes for Elderly Care
- Smart Homes for Health
- Sustainable Architecture
- Sustainable Construction
- Sustainable Materials
- Thermal Comfort
- Total Volatile Organic Compounds (TVOC)

Subject: Environment & Agriculture

Classification: Edited Reference

Readership Level: Advanced-Academic Level (Research Recommended)

Research Suitable for: Advanced Undergraduate Students; Graduate Students; Researchers; Academicians; Professionals; Practitioners

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