

1. Record Nr.	UNINA9910794231803321
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Titolo	Efficient lighting applications and case studies / / Scott C. Dunning, Albert Thumann
Pubbl/distr/stampa	London : , : Routledge, Taylor & Francis Group, , 2020
ISBN	1-00-315174-4 87-7022-305-X 1-003-15174-4 1-000-35593-4
Edizione	[First edition.]
Descrizione fisica	1 online resource (290 pages)
Disciplina	621.320286
Soggetti	Commercial buildings - Lighting Electric lighting - Energy conservation Electric power - Conservation COMPUTERS / Networking / General TECHNOLOGY / Electricity TECHNOLOGY / Electronics / Circuits / General
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"River Publishers"
Nota di contenuto	Cover -- Half Title -- Title Page -- Copyright Page -- Table of Contents -- Acknowledgements -- Section I: Lighting Systems Design -- Chapter 1 How to Design a Lighting System -- Chapter 2 Selection Criteria for Lighting Energy Management -- Chapter 3 Practical Selection of Fluorescent Lamps with Emphasis on Efficiency and Color -- Chapter 4 Ideal Task Lighting -- Chapter 5 Efficient and Effective Lighting Design -- Section II: Lighting Control Considerations -- Chapter 6 Review of Lighting Control Equipment and Applications -- Chapter 7 Energy vs. Quality of Light -- Section III: Reflectors -- Chapter 8 Fluorescent Reflectors: The Main Considerations -- Chapter 9 Specular Retrofit Reflectors for Fluorescent Troffers -- Section IV Ballast Selection -- Chapter 10 Matching Fluorescent Lamps and Solid State Ballasts to Maximize Energy Savings -- Section V Natural Daylighting -- Chapter 11 Natural Daylighting - An Energy Analysis -- Chapter 12 Windows and Daylighting -- Section VI Wireless Lighting

Control -- Chapter 13 Wireless Lighting Controls in Parking Garages -- Chapter 14 Energy Savings with Zigbee Wireless in China -- Section VII Case Studies -- Chapter 15 Mesopic Outdoor Lighting -- Chapter 16 Assessment of the Lighting Systems for the Oil Sector Complex Building in Kuwait-Before and After Commissioning -- Chapter 17 Intelligent Lighting -- Chapter 18 New Lighting Technologies Demonstrated at Defense Commissaries -- Chapter 19 Innovative Lighting Contest: Small Actions Add up to Big Savings in Schools -- Index.

Sommario/riassunto

With the increased concern for energy conservation in recent years, much attention has been focused on lighting energy consumption and methods for reducing it. Along with this concern for energy efficient lighting has come the realization that lighting has profound effects on worker productivity as well as important aesthetic qualities. This book presents an introduction to lighting design and energy efficiency which can be utilized while maintaining the quality of illumination. Topics include lighting energy management, selection of lamps, task lighting, lighting design, lighting control, reflectors, ballast selection, natural daylighting, wireless lighting control, and case studies.

2. Record Nr. UNINA9910253977803321

Titolo

Building Sustainable Cities of the Future / / edited by Justin Bishop

Pubbl/distr/stampa

Cham : , : Springer International Publishing : , : Imprint : Springer, , 2017

ISBN

3-319-54458-6

Edizione

[1st ed. 2017.]

Descrizione fisica

1 online resource (VII, 194 p. 51 illus., 49 illus. in color.)

Collana

Green Energy and Technology, , 1865-3529

Disciplina

307.1416

Soggetti

Energy policy
Regional planning
City planning
Sustainable development
Environmental economics
Environmental geography
Transportation
Energy Policy, Economics and Management
Landscape/Regional and Urban Planning
Sustainable Development
Environmental Economics
Environmental Geography

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references at the end of each chapters.
Nota di contenuto	Introduction -- Urban air quality -- Natural resources and resource efficiency -- Transport -- Energy supply -- Water and sanitation -- Buildings -- Urbanisation, migration and social welfare -- Economy, competitiveness and innovation -- Urban planning and infrastructure -- Reducing the ecological footprint and harnessing ecosystem services -- Circular urban economy -- Resilience and robustness to impacts of climate change -- Urban infrastructure with social equity at its core -- Connected cities and measured cities -- Conclusion.
Sommario/riassunto	<p>This book draws upon the expertise of academic researchers, urban planners and architects to explore the challenge of building the sustainable cities of the future. It addresses this challenge by considering current cities and those of the near future, and creates a picture of the sustainable city from the bottom up. Individual chapters cover topics such as transport, energy supply, sustainable urbanism and promoting social equality in large infrastructure projects. Real-world examples are presented to illustrate how systems thinking is used to integrate different components of a city so as to ensure that the whole is more sustainable than its parts. Written in an accessible style, this book is intended for general readers as much as it is for students and researchers interested in sustainable cities and related topics. It is also ideal for urban planners seeking best-practice guidelines for sustainable urban development.</p>