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Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; Part 1: RENEWABLE ENERGY CONVERSION SYSTEMS; 1 Introduction: An Overview of Metal Chalcogenide Nanostructures for Renewable Energy Applications; 1.1 Introduction; 1.2 Metal Chalcogenide Nanostructures; 1.3 Growth of Metal Chalcogenide Nanostructures; 1.4 Applications of Metal Chalcogenide Nanostructures; 1.5 Summary and Future Perspective; References; 2 Renewable Energy and Materials; 2.1 Global Energy Scenario; 2.2 Role of Renewable Energy in Sustainable Energy Future; 2.3 Importance of Materials Role in Renewable Energy; References 3 Sustainable Feed Stock and Energy Futures3.1 Introduction; 3.2 Discussion; 3.2.1 Nuclear Technology; 3.2.2 Solar Energy; 3.2.3

Hydrogen by Water Splitting; References; Part 2: SYNTHESIS OF METAL CHALCOGENIDE NANOSTRUCTURES; 4 Metal-Selenide Nanostructures: Growth and Properties; 4.1 Introduction; 4.2 Growth and Properties of Different Groups of Metal-Selenide Nanostructures; 4.2.1 Metal Selenides from II-VI Semiconductors; 4.2.2 ZnSe; 4.2.3 CdSe; 4.2.4 HgSe; 4.3 Metal Selenides from III-VI Semiconductors; 4.3.1 In₂Se₃; 4.4 Metal Selenides from IV-VI Semiconductors; 4.4.1 SnSe; 4.4.1 PbSe; 4.5 Metal Selenides from V-VI Semiconductors; 4.5.1 Sb₂Se₃; 4.5.2 Bi₂Se₃; 4.6 Metal Selenides from Transition Metal (TM); 4.6.1 Copper Selenide (CuSe, Cu₃Se₂); 4.6.2 Iron Selenide (FeSe₂, FeSe); 4.6.3 MoSe₂; 4.6.3 WSe₂; 4.7 Ternary Metal-Selenide Compounds; 4.7.1 CuInSe₂ (Copper Indium Diselenide); 4.7.2 CdSSe; 4.7.3 CdZnSe; 4.8 Summary and Future Outlook; Acknowledgment; References; 5 Growth Mechanism and Surface Functionalization of Metal Chalcogenide Nanostructures; 5.1 Introduction; 5.1.2 Structure of Layered Transition Metal Chalcogenides (LTMCs); 5.2 Synthetic Methods for Layered Metal Chalcogenides; 5.2.1 Laser Ablation; 5.2.2 Arc Discharge; 5.2.3 Microwave-Induced Plasma; 5.2.4 Electron Beam Irradiation; 5.2.5 Spray Pyrolysis; 5.2.6 Sulfidization with H₂S; 5.2.7 Hydrothermal; 5.2.8 Metal Organic Chemical Vapor Deposition (MOCVD) Technique; 5.2.9 Vapor-Liquid-Solid (VLS) Growth; 5.2.10 Oxide-to-Sulfide Conversion; 5.2.11 Hot-Injection Solution Synthesis; 5.2.12 Liquid Exfoliation; 5.3 Surface Functionalization of Layered Metal Dichalcogenide Nanostructures; 5.3.1 Surface Functionalization Based on Polymeric Ligands; 5.3.2 Surface Functionalization Based on Pearson Hardness; 5.3.3 Surface Functionalization of Metal Chalcogenides by Silane; 5.4 Applications of Inorganic Nanotubes and Fullerenes; 5.4.1 Energy; References; 6 Optical and Structural Properties of Metal Chalcogenide Semiconductor Nanostructures; 6.1 Optical Properties of Metal Chalcogenide Semiconductor Nanostructures; 6.1.2 Metal Chalcogenide Nanocrystals; 6.2 Structural Properties and Defects of Metal Chalcogenide Semiconductor Nanostructures; References; 7 Structural and Optical Properties of CdS Nanostructures; 7.1 Introduction; 7.2 Nanomaterials

Sommario/riassunto

This first ever reference book that focuses on metal chalcogenide semiconductor nanostructures for renewable energy applications encapsulates the state-of-the-art in multidisciplinary research on the metal chalcogenide semiconductor nanostructures (nanocrystals, nanoparticles, nanorods, nanowires, nanobelts, nanoflowers, nanoribbons and more). The properties and synthesis of a class of nanomaterials is essential to renewable energy manufacturing and this book focuses on the synthesis of metal chalcogenide nanostructures, their growth mechanism, optical, electrical, and other important pro

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Autore	ieee
Titolo	2012 IEEE Asia-Pacific Services Computing Conference
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ISBN	9780769548975 0769548970
Descrizione fisica	1 online resource (xxi, 416 pages)
Disciplina	658.05
Soggetti	Business - Data processing Information technology
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
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3. Record Nr.	UNINA9911018640703321
Autore	Marinic Gregory
Titolo	About Streets : Perspectives on Urbanism, Architecture, and Placemaking // edited by Gregory Marinic, Pablo Meninato
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ISBN	3-031-84231-6
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (923 pages)
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Altri autori (Persone)	MeninatoPablo
Disciplina	720.1
Soggetti	Urban policy Geography Design Sociology, Urban Architecture - History Cities and towns - History Urban Policy Regional Geography Urban Sociology Architectural History and Theory Urban History
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di contenuto	Introduction -- Part 1: Histories -- The street as an elemental atom of the urban system -- Towards a new urban paradigm: Lina Bo Bardi and the citadel of freedom -- Rockefeller center's channel gardens: Pleasure, profit, and ceaseless transformations -- The intellectual versus the street: Ludwig Hilberseimer's settlement unit -- Where the skyway ends: A past and future in downtown Minneapolis -- The street through the building -- Fixing a hole: Replicas and the conservation of streets -- House, street, city: Le Corbusier's research towards a new urban interior -- Guts of the city: In the bowels of the street -- Towards a new narrative for the automotive strip -- Part 2: Geographies -- Replicas: Thoughts from Colonial Williamsburg and contemporary Berlin -- Streetscapes, dwellings, and performance in

three Asian Museums -- The streets of Chinatown: Mapping the spatial character of a distinctive urban district -- Cultural intersections: Street networks in Seoul's Jongno district -- Istiklal avenue: A distinctive urban assemblage in Istanbul -- Contested territories: Identity and memory in the public spaces of Mostar, Bosnia and Herzegovina -- Residential back alleys: Underdetermined spaces of multiple potentials -- The graphic urban ground -- The fragile architecture of public life: Unraveling the public-private interface -- Brownsville market square: A resurgence of city life -- Avenida 9 de Octubre and the mall of Guayaquil.-Part 3: Expressions -- Street matters: Urban policy lessons from a century of protests in Brazil -- Streets and women: Everyday public spaces for Egalitarian cities -- Doors as streets: Snøhetta's Toronto Metropolitan University library as streetscape -- A dialogue of two infrastructures: Choreographing water and pathways in India -- Queer streets: A new kind of public -- Largo do Arouche: São Paulo's Queer militant battlefield -- Filmic space of streets: Avant Garde interpretations of the urban experience in city symphonies -- Observing Prishtina: Sketching the city as a way of seeing -- Re-assembling revolution: Actors, material, and economies of Avenida Revolución -- Boulevard of American dreams: People, politics, and placemaking in the Cleveland cultural gardens -- Part 4: Designs -- Art and other appropriations: Reconstituting the street as a work of life -- 16th street Transitway mall: Revisiting an iconic street 40 Years later -- Streets in the air: A view from Latin America -- Streets for People: Parklets before and after the pandemic -- House +: Strategies for a domestic commons in an unzoned city -- Fashion street: The role of streets in the expression, impression, and acquisition of fashion -- Tactical urbanism: Staging the public use of left-over spaces -- Streets in the Studio: A cross-cultural exploration of Chinese Hutongs and American alleys -- Intricacy: Interior urbanism at the edges of contemporary public space -- Kiosk 67: An adaptable architecture for street life -- Part 5: Metrics -- Shaping high street futures: Place attraction and the Sun model of shopping choices -- Image of the road: The case of Celovška cesta in Ljubljana -- Digital placemaking: Social media as a tool to reappropriate public spaces -- Neighborhood parks and equitable access -- Collaboration in the creative city: Virtual and analogue co-creation of street art -- Navigating privacy and community in residential street design: Case studies from the Italian Ina-Casa plan -- Part 6: Reflections -- Interstices: Spaces of connection and disconnection -- Repeating the past: The politics of highway expansion in Houston -- Streetscapes: From cluttered to Spartan and back -- Oklahoma city: Cultivating urban possibilities on the Southern Plains -- Streetscapes as enabling social infrastructure -- Street trees: Making a case for a productive urban Canopy -- Dead ends: Notes on death, architecture, and the everyday life of the street -- Afterword.

Sommario/riassunto

Focusing on the street as a socio-spatial catalyst, this book fosters a comprehensive conversation on the past, present, and future of streets and public space. While 'the street' is commonly associated with urban form or the metropolitan context of social dynamics and design practices, this interdisciplinary anthology highlights that urban design challenges are global, multidimensional, and transcalar. This critical survey of the city collects a broad scope of practices and phenomena in urbanism, architecture, activism, and participatory design. Individual chapters examine the histories, theories, geographies, architecture, and design of streets offering essential reading for scholars, professionals, students, and enthusiasts of urbanism, urban design, architecture, landscape architecture, planning, geography, sociology, anthropology,

cultural studies, economics, and the arts. Over 50 chapters, authored by an international and diverse group of leading academics, theorists, historians, and practitioners, expand the discourse on streets and public space. Gregory Marinic, Ph.D. is an associate professor in the University of Cincinnati College of Design, Architecture, Art, and Planning. He is an architectural and urban theorist widely published in a range of topics across architecture and urbanism. Pablo Meninato, Ph. D. is an associate professor in the Tyler School of Art and Architecture at Temple University. He is an architect, architectural critic, and US Fulbright scholar widely published in Latin American architecture and urbanism.
