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Titolo	Sustainable Engineering : Concepts and Practices // edited by Israel Sunday Dunmade, Michael Olawale Daramola, Samuel Ayodele Iwarere
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ISBN	3-031-47215-2
Edizione	[1st ed. 2024.]
Descrizione fisica	1 online resource (512 pages)
Collana	Green Energy and Technology, , 1865-3537
Disciplina	628
Soggetti	Environmental engineering Biotechnology Bioremediation Sustainability Energy policy Renewable energy sources Sustainable architecture Environmental Engineering/Biotechnology Energy Policy, Economics and Management Renewable Energy Sustainable Architecture/Green Buildings
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Biotechnology and Sustainable Engineering -- Sustainable Engineering in the Construction Industry -- Design, Manufacturing and Sustainable Engineering -- Sustainability in Process, Materials, Mining and Metallurgical Engineering -- Food-Water-Energy Nexus and Sustainable Engineering -- Nanotechnology and Sustainable Engineering -- Facilities and Infrastructural Aspects of Sustainable Engineering -- Socio-economic Aspects of Sustainable Engineering -- Political and Institutional Aspects of Sustainable Engineering -- Educational Aspects of Sustainable Engineering -- Fourth Industrial Revolution and Other Aspects of Sustainable Engineering.
Sommario/riassunto	Sustainable Engineering: Concepts and Practices provides insights into

current perspectives on sustainable engineering research. It highlights the drivers, motivations, and challenges affecting the development and adoption of sustainable engineering in various sectors of the economy and how they impact sustainable development. Contributions from researchers representing multiple branches of engineering in academia, government laboratories, and industry present alternative approaches to traditional engineering practices. These approaches effect change, making the design, construction, production, and management of products, processes, and systems more environmentally friendly, socially beneficial, and economically profitable. The book will be a trusted reference for graduate students, practicing engineers, and other professionals interested in developing or using sustainable products and systems. Provides insights into current perspectives on sustainable engineering research and practices; Offers in-depth coverage of Industry 4.0, the circular economy, and lifecycle sustainability assessment (LCSA); Looks at the current state of education in sustainable engineering.

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