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Titolo	Electrical Sustainable Energy for Mechanical Engineering // by Masaaki Okubo
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2025
ISBN	9789819651702 9789819651696
Edizione	[1st ed. 2025.]
Descrizione fisica	1 online resource (225 pages)
Disciplina	621.3126
Soggetti	Energy storage Electric power production Electrical engineering Sustainability Mechanical and Thermal Energy Storage Mechanical Power Engineering Electrical Power Engineering Electrical and Electronic Engineering
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Basic Laws of Electrical Circuits -- 2. AC linear circuit element -- 3. Fundamentals of AC electrical circuits and AC equipment -- 4. Fundamentals of AC electrical circuits and AC equipment -- 5. Impedance matching and energy conversion.
Sommario/riassunto	This book describes fundamentals and applications on electrical sustainable energy for Mechanical Engineering. The main objective of this book is to provide readers with an easy-to-understand resource on the foundations and application of electrical sustainable energy. This book was specifically crafted with the intention to serve as a resource for students in the third year through graduate school, particularly in departments other than electrical engineering such as mechanical engineering departments at universities. The aim is to provide foundational knowledge on sustainable electrical energy and energy conversion principles. The topics addressed are those which the author

found beneficial in the pursuit of mechanical engineering research and are related to sustainable electrical engineering. It is designed to be covered within a semester of 15 weeks (90 minutes per week), structured into nine chapters. Specifically, it is suggested that chapters 1 and 2 be taught over 4 weeks, chapters 4 to 7 over 6 weeks, and chapters 8 and 9 across 5 weeks. Furthermore, each chapter has comprehensive exercise problems and is projected to cover approximately eight problems in two weeks. These exercises can either be conducted as in-class integrative practice or assigned as weekly homework tasks, with the intention of nurturing problem-solving capabilities in students.

2. Record Nr.

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Titolo

Handbook of Human and Planetary Health / editor Walter Leal Filho

Pubbl/distr/stampa

Cham, : Springer, 2022

Descrizione fisica

IX, 399 p. : ill. ; 24 cm

Disciplina

363.72

577

613

Lingua di pubblicazione

Inglese

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Monografia