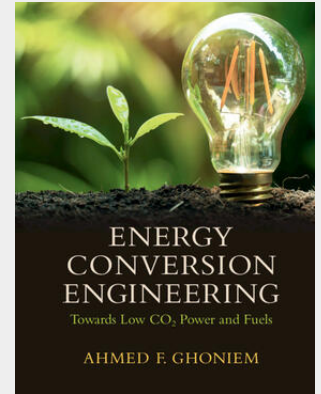


Ghoniem

Energy Conversion Engineering

Towards Low CO₂ Power and Fuels

This unique textbook equips students with the theoretical and practical tools needed to model, design, and build efficient and clean low-carbon energy systems. Students are introduced to thermodynamics principles including chemical and electrochemical thermodynamics, moving onto applications in real-world energy systems, demonstrating the connection between fundamental concepts and theoretical analysis, modelling, application, and design. Topics gradually increase in complexity, nurturing student confidence as they build towards the use of advanced concepts and models for low to zero carbon energy conversion systems. The textbook covers conventional and emerging renewable energy conversion systems, including efficient fuel cells, carbon capture cycles, biomass utilisation, geothermal and solar thermal systems, hydrogen and low-carbon fuels. Featuring numerous worked examples, over 100 multi-component homework problems, and online instructor resources including lecture slides, solutions, and sample term projects, this textbook is the perfect teaching resource for an advanced undergraduate and graduate-level course in energy conversion engineering.



104,50 €

97,66 € (zzgl. MwSt.)

Lieferfrist: bis zu 10 Tage

Artikelnummer: 9781108478373

Medium: Buch

ISBN: 978-1-108-47837-3

Verlag: Cambridge University Press

Erscheinungstermin: 13.01.2022

Sprache(n): Englisch

Auflage: Erscheinungsjahr 2022

Produktform: Gebunden

Gewicht: 1905 g

Seiten: 1000

Format (B x H): 203 x 249 mm

