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Sommario/riassunto

This book, edited by Inamuddin, Tariq Altalhi, and Mohammad Luqman, provides an in-depth exploration of solar energy concentrators, focusing on the essentials and applications of these technologies. It covers various solar tracking systems, solar radiation models, and the principles and limitations of solar concentrators. The book discusses different types of solar concentrators, their components, and material properties, along with thermodynamic and optical considerations. It aims to guide researchers, engineers, and students in the field of renewable energy, particularly solar power. The book also explores the feasibility and deployment of concentrated solar power technologies globally, and provides insights into future perspectives and innovations in solar energy concentration.