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Sommario/riassunto	This book provides a comprehensive exploration of the concepts of heat and energy, focusing on their physical principles and applications. It covers topics such as temperature, phases of matter, entropy, gas laws, turbines, heat pumps, diffusion, electrolysis, energy forms and conversion, and the role of light and renewable energy sources like wind, water, and photovoltaic systems. The authors aim to offer a systematic and clear presentation of these topics, enhanced by didactic comments and practical examples. The book is intended for students and readers interested in gaining a deeper understanding of thermal physics and its implications in the context of climate change and energy efficiency.