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Autore	Huang Minchao
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Sommario/riassunto	This open access book focuses on the field of aerospace propulsion theory and engineering. The book takes the solar thermal thruster as the research object, has carried on the solar thermal thruster working process theoretical analysis, the numerical simulation and the experimental verification, and has revealed the solar thermal thruster internal working mechanism, and a design optimization method for high performance solar thermal thruster is presented. The research contents reflect the latest research results of performance analysis of solar thermal thrusters. This book is used as a textbook or reference book for teachers, students and scientists in the fields of aerospace, aeronautics, engineering thermal physics and power.