1. Record Nr. UNINA9910484932803321 Autore Ingenito Antonella Titolo Subsonic combustion ramjet design / / Antonella Ingenito Pubbl/distr/stampa Cham, Switzerland:,: Springer,, [2021] ©2021 **ISBN** 3-030-66881-9 Edizione [1st ed. 2021.] 1 online resource (X, 115 p. 84 illus., 36 illus. in color.) Descrizione fisica SpringerBriefs in Applied Sciences and Technology, , 2191-530X Collana Disciplina 629.134353 Airplanes - Ramjet engines - Design and construction Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Introduction -- Fundamental Definitions of Ramjet Engines -- Ramjet Nota di contenuto Engines Performance -- Ramjets Fuels -- Flameholders Design Guidelines -- Injectors Design Guidelines -- Combustor Design Guidelines -- Igniter Design Guidelines -- Material Selection for Ramjet Engines. This book presents a step-by-step methodology for the design of Sommario/riassunto ramjet engines. It explores ramjet combustion, provides guidelines on how to size the engines, and discusses performance analysis. The book begins with an introduction to ramjet design, including fundamental definitions in the field. It then discusses ramjet engine performance, and fuels which can be used. Several types of ramjet engines are then explored, and guidelines for their design are presented, including flame holders, injectors, and combustors. Finally, the book concludes with a discussion of the types of materials which should be used for ramjet engines. This book is of interest to engine designers and engineers,

researchers, and graduate students, as it collates research in a succinct,

clear guide to the issue of designing ramiet engines. .