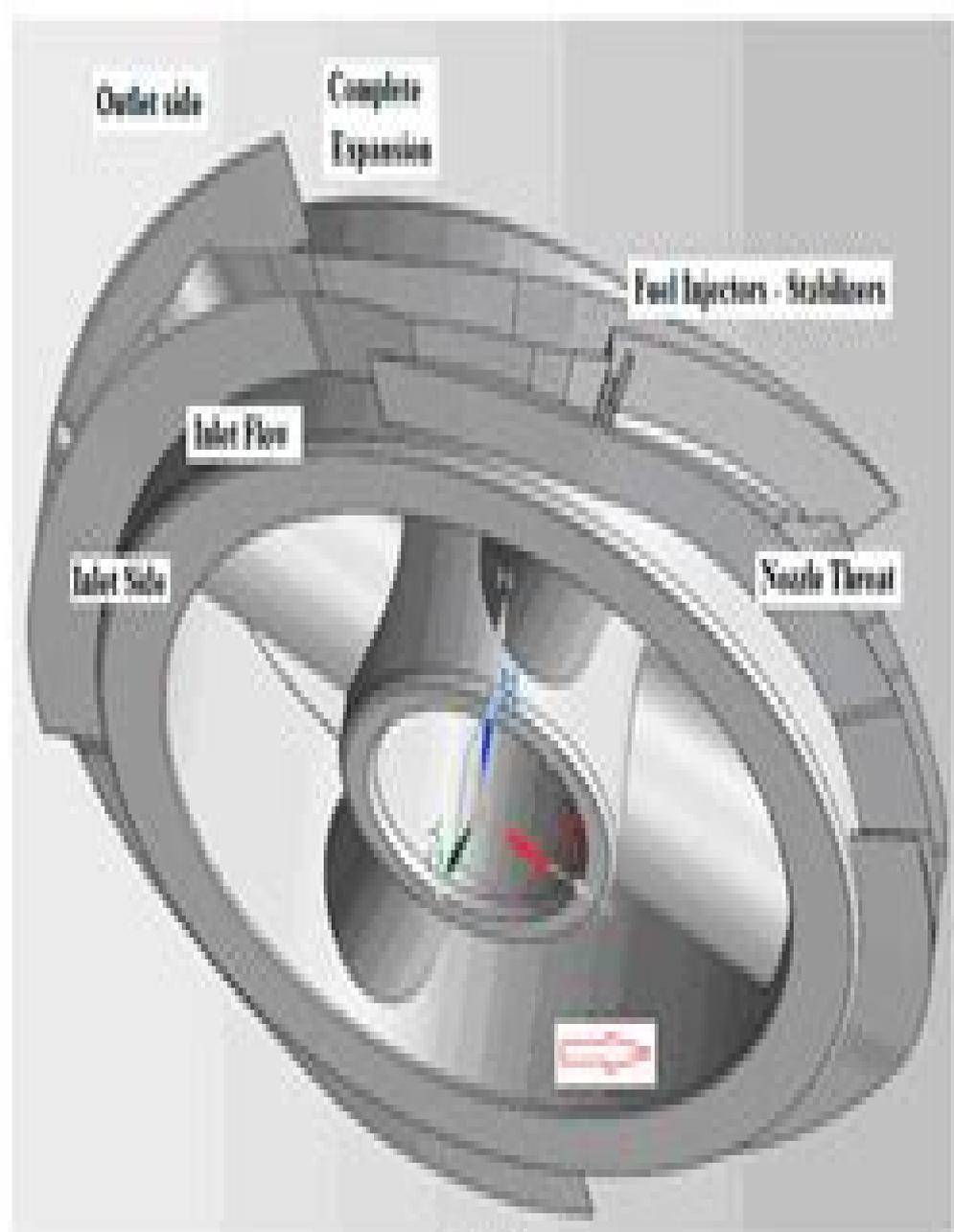




(a)



(b)

# Shock Wave Engine Design

**S Marginson**



## **Shock Wave Engine Design:**

**Shock Wave Engine Design** Helmut E. Weber, 1994-12-13 Written by an author who has devoted the past twenty five years of his life to studying and designing shock wave engines this unique book offers comprehensive coverage of the theory and practice of shock wave engine design The only book treating the complete preliminary design of shock wave engines it provides engineers with practical step by step guidelines applicable to the design and construction of small light weight low powered industrial turbines as well as high performance jet aircraft engines In his discussions of the advantages and disadvantages of shock wave versus other types of combustion engines Dr Weber demonstrates how and why shock wave engines can be made to work more efficiently than conventional gas turbines Among other things he shows quantitatively why combustion temperatures can be significantly higher in shock wave engines than conventional gas turbines He evaluates temperatures of moving parts in terms of combustion and engine inlet temperatures and explores the effect of shock coalescence expansion fan reflections and intersections on port sizes and locations And throughout real and imagined performance problems are posed and proven solutions given for shock wave engines alone and in conjunction with conventional gas turbines or reciprocating internal combustion engines Designed to function as a practical guide Shock Wave Engine Design offers concise step by step design techniques in a readily usable format Engineers will find precise detailed directions on such essentials as how to size wave rotor blade lengths and heights and the correct rotor diameter for a specified power and material selection for rotor and stator And one entire chapter Chapter 12 is devoted exclusively to a detailed example design for a 500 hp engine An authoritative highly practical guide to state of the art shock wave engine design this book is an important resource for mechanical and aerospace engineers who design aircraft engines or virtually any type of turbomachinery Timely authoritative practical an important resource for engineers who design aircraft engines or virtually any type of turbomachinery Written by a pioneer in the field this book offers a comprehensive coverage of state of the art shock wave engine design principles and techniques The only book treating the complete preliminary design of shock wave engines this unique guide provides engineers with Concise step by step guidelines applicable to the design and construction of small lightweight low powered industrial turbines as well as high performance jet aircraft engines In depth treatments of pressure exchangers wave engines and wave engines compounded with reciprocating IC engines A chapter length example design for a 500 hp engine A brief but thorough review of all essential thermodynamics and gas dynamics needed to develop flow equations and calculation methods Applied Mechanics Reviews ,1995 **Synergistic Airframe-propulsion**

**Interactions and Integrations** Steven F. Yaros, 1998 This white paper addresses the subject of Synergistic Airframe Propulsion interactions and integrations SnAPII The benefits of SnAPII have not been as extensively explored This is due primarily to the separateness of design process for airframes and propulsion systems with only unfavorable interactions addressed The question How to design these two systems in such a way that the airframe needs the propulsion and the

propulsion needs the airframe is the fundamental issue addressed in this paper Successful solutions to this issue depend on appropriate technology ideas This paper first details some ten technologies that have yet to make it to commercial products with limited exceptions and that could be utilized in a synergistic manner Then these technologies either alone or in combination are applied to both a conventional two engine transonic transport and to an unconventional transport the Blended Wing Body Lastly combinations of these technologies are applied to configuration concepts to assess the possibilities of success relative to five of the ten NASA aeronautics goals These assessments are subjective but they point the way in which the applied technologies could work together for some break through benefits

**41st AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit 10-13 July 2005, Tucson, Arizona: 05-3800 - 05-3849 ,2005** **An Introductory Guide to EC Competition Law and Practice** Valentine Korah,1994 Wave Engine Topping Cycle Assessment ,1996 *Analytical and Experimental Investigations of the Oblique Detonation Wave Engine Concept* ,1991 Proceedings of the ASME Process Industries Division, ... : Presented at the ... ASME Mechanical Engineering Congress and Exposition, ... ,2004

**39th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 20-23, 2003, Huntsville, Alabama: 03-4400 - 03-4449 ,2003** **40th AIAA/ASME/SAE/ASEE Joint Propulsion Conference & Exhibit July 11-14, 2004, Fort Lauderdale, FL.: 04-3550 - 04-3599 ,2004** **ASME Technical Papers** ,1996 *Aircraft Gas Turbine Engine Technology* Irwin E. Treager,1970 *35th Aerospace Sciences Meeting & Exhibit* ,1997 **Southwestern Aviation** ,1973 *U.S. Government Research & Development Reports* ,1970 Wave Augmented Diffusers for Centrifugal Compressors Daniel E. Paxson,1998 **Internal Combustion Engines** Colin R. Ferguson,Allan T. Kirkpatrick,2001 Applies the principles of thermodynamics fluid mechanics and heat transfer to the analysis of internal combustion engines Includes fuels lubricants engine performance *Aircraft Engine Design* Jack D. Mattingly,William H. Heiser,Daniel H. Daley,1987 Good No Highlights No Markup all pages are intact Slight Shelfwear may have the corners slightly dented may have slight color changes slightly damaged spine **Study of a Novel R718 Turbocompression Cycle** Amir Ahmadzadeh Kharazi,2006 *Journal* Institute of Petroleum (Great Britain),1929

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