Record Nr. UNINA9910781405503321 **Titolo** Numerical methods for engine-airframe integration [[electronic resource] /] / edited by S.N.B. Murthy, Gerald C. Paynter Pubbl/distr/stampa New York, N.Y.,: American Institute of Aeronautics and Astronautics. Inc., c1986 **ISBN** 1-60086-576-3 1-60086-357-4 Descrizione fisica 1 online resource (555 p.) Collana Progress in astronautics and aeronautics;; v. 102 Altri autori (Persone) MurthyS. N. B PaynterGerald C Disciplina 629.134/31 629.1 s Airframes - Design and construction Soggetti Airplanes - Motors Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia "Technical papers selected from the AIAA 22nd Aerospace Sciences Note generali Meeting, January 1984, subsequently revised for this volume, and papers especially invited by the editors for this volume." Nota di bibliografia Includes bibliographical references and index. ""Cover""; ""Title""; ""Copyright""; ""Table of Contents""; ""Preface""; Nota di contenuto ""Chapter I. Fundamental Considerations""; ""Scientific Computing Environment for the 1980's""; ""Prediction of Complex Turbulent Flows: An Overview 1985""; ""A Survey of Composite Grid Generation for General Three-Dimensional Regions""; ""Numerical Solutions of the Compressible Navier-Stokes Equations""; ""Chapter II. Scope and Opportunities""; ""Elements of Computational Engine/Airframe Integration""; ""Computational Requirements for Efficient Engine Installation"" ""Application of CAE and CFD Techniques to Complete Tactical Missile Design"" ""Chapter III. Inviscid and Inviscid Plus Boundary-Layer Methods"": ""CFD Applications to Engine/Airframe Integration"": ""Three-Dimensional Flow Analysis of Turboprop Inlet and Nacelle Configurations""; ""Application of Computational Methods to the Design of Large Turbofan Engine Nacelles""; ""Comparison of Full Potential and Euler Solution Algorithms for Aeropropulsive Flowfield Computations"; ""Subsonic/Transonic/Supersonic Nozzle Flows and Nozzle

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