

Vectored Propulsion, Supermaneuverability and Robot Aircraft

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VECTORED PROPULSION, SUPERMANEUVERABILITY AND ROBOT AIRCRAFT



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Condition: New. Publisher/Verlag: Springer, Berlin | This book is designed to fill a professional vacuum in the new field of advance, high-angle, vectored stealth aircraft. The subject matter presented in the volume has never before been investigated and presented as a unified field of study because it covers entirely new fields and because specialized fragments of this unified field are scattered throughout literature in specific problems. The book is of interest to aeronautical and mechanical engineers, electrical and control engineers, aerospace industry, USAF, US Navy, NASA, pilots and instructors. | Preface.- Acknowledgements.- Glossary and Notation.- The main problems of thrust-vectored maneuverability -Vectored Aircraft: Breaking the "Stall Barrier" - The New Standard Technology - Civil Applications.- Soviet and Western Concepts - Research tools -Cold propulsion - The Fundamental Definitions of Pure Vectored Aircraft (PVA).- Pure Sideslip Maneuvers (PSM) - Combat Applications -.- Partially-Vectored Aircraft.- Agility, Supermaneuverability and Supercontrollability.- Load factors.- "Energy" Vs. "Angles" Fights - Time Lags -.- The Overall Combat Picture -- Minimum Time Turns - Low Observability - Stealth RPVs.- The Time Gaps.- New Educational Shifts.- Concluding Remarks.- Lecture I: Fundamental Concepts Revisited and Redefined.- New Missions and Modified Design Trends.- Early Conceptual Design Limitations.- Internal Thrust Vectoring.- Engine Nozzle Redefined.- Performance Comparisons.- Subsonic Yaw-Pitch-Roll Thrust Vectoring.- Lecture II: Vectored Aircraft and Supermaneuverability.- Yaw-Pitch Vectoring and Supercirculation.- Pure Jetborne Flight Control.- STOL or V/STOL Vectored Aircraft.-Dimensionless Numbers for Pure Vectored Aircraft.- Emergency Landing.- Air-to-Air Operations.- Air-to-Ground Operations.- Propulsion and Supermaneuverability.- Maneuver Analysis.- Controllability Limits.- High-Alpha Flight Envelopes.- The Non-Availability of a "Vectored Inlet".-Lecture III: The Matrix of Unknown Variables of Vectored Aircraft.- Reservations and Precautions.- Technology Limits.- Cooling Limits.- Nozzle Aspect Ratio Limits.- Aerodynamic Effects.- Nozzle Coefficients Revisited.- Thrust Vectoring Range.- Induced drag and Supercirculaton.- Lecture IV: Vectored Aircraft as R&D Tools, or as Super-Agile Robotic...

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