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3.2.2 Overall Gas Generator Control Logic3.2.3 Speed Governing with Acceleration and Deceleration Limiting; 3.2.4 Compressor Geometry Control; 3.2.5 Turbine Gas Temperature Limiting; 3.2.6 Overspeed Limiting; 3.3 Fuel System Design and Implementation; 3.3.1 A Historical Review of Fuel Control Technologies; 3.3.2 Fuel Pumping and Metering Systems; 3.4 The Concept of Error Budgets in Control Design; 3.4.1 Measurement Uncertainty; 3.4.2 Sources of Error; 3.5 Installation, Qualification, and Certification Considerations; 3.5.1 Fuel Handling Equipment
3.5.2 Full-authority Digital Engine Controls (FADEC)3.6 Concluding Commentary; References; 4 Thrust Engine Control and Augmentation Systems; 4.1 Thrust Engine Concepts; 4.2 Thrust Management and Control; 4.3 Thrust Augmentation; 4.3.1 Water Injection; 4.3.2 Afterburning; Reference; 5 Shaft Power Propulsion Control Systems; 5.1 Turboprop Applications; 5.1.1 The Single-shaft Engine; 5.1.2 The Free Turbine Turboprop; 5.2 Turboshaft Engine Applications; Reference; 6 Engine Inlet, Exhaust, and Nacelle Systems; 6.1 Subsonic Engine Air Inlets; 6.1.1 Basic Principles
6.1.2 Turboprop Inlet Configurations6.1.3 Inlet Filtration Systems; 6.2 Supersonic Engine Air Inlets; 6.2.1 Oblique Shockwaves; 6.2.2 Combined Oblique/Normal Shock Pressure Recovery Systems; 6.2.3 Supersonic Inlet Control; 6.2.4 Overall System Development and Operation; 6.2.5 Concorde Air Inlet Control System (AICS) Example; 6.3 Inlet Anti-icing; 6.3.1 Bleed-air Anti-icing Systems; 6.3.2 Electrical Anti-icing Systems; 6.4 Exhaust Systems; 6.4.1 Thrust Reversing Systems; 6.4.2 Thrust Vectoring Concepts; References; 7 Lubrication Systems; 7.1 Basic Principles; 7.2 Lubrication System Operation
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Sommario/riassunto

Major changes in gas turbine design, especially in the design and complexity of engine control systems, have led to the need for an up to date, systems-oriented treatment of gas turbine propulsion. Pulling together all of the systems and subsystems associated with gas turbine engines in aircraft and marine applications, Gas Turbine Propulsion Systems discusses the latest developments in the field. Chapters include aircraft engine systems functional overview, marine propulsion systems, fuel control and power management systems, engine lubrication and scavenging systems, nacelle and anc