1.	Record Nr.	UNINA9910817541803321
	Titolo	Air transportation systems engineering [[electronic resource] /] / edited by George L. Donohue [et al.]
	Pubbl/distr/stampa	Reston, Va., : American Institute of Aeronautics and Astronautics, c2001
	ISBN	1-60086-663-8 1-60086-444-9 1-60119-205-3
	Descrizione fisica	1 online resource (743 p.)
	Collana	Progress in astronautics and aeronautics ; ; v. 193
	Altri autori (Persone)	DonohueGeorge L
	Disciplina	387.7/40426
	Soggetti	Aeronautics - Systems engineering Air traffic control - Management
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.
	Nota di bibliografia	Includes bibliographical references and index.
	Nota di contenuto	""Cover""; ""Title"; ""Copyright"; ""Table of Contents"; ""Preface""; ""Chapter 1 Introduction"; "Section I: U.S. and European ATM Systemsa €?Similarities and Differences"; "Chapter 2 Air Traffic Management Capacity-Driven Operational Concept Through 2015""; ""Introduction""; ""Preliminary Design for the NAS""; "Operational Concept Development""; "Functions, Agents, and Performance""; "ATM System Functional Structure"; "Capacity, Safety, and Separation Assurance""; "Capacity-Driven Operational Concept"; "National Level Flow Management""; "En Route and Outer Terminal Area"" "Approach/Departure Transition"""Final Approach"; "Surface""; ""Efficiency in Low Density En Route Airspace"; "Conclusions""; ""References""; "Chapter 3 Comparison of U.S. and European Airports and Airspace to Support Concept Validation"; "Introduction""; "Assessment Territory"; ""Metrics and Measures""; "Assessment and Findings"; "Conclusions"; ""Chapter 4 Performance Review in Europe"; "Introduction"; "Background"; "European Challenge"; "Other Limitations on Growth"; "Conclusions" ""Chapter 5 United States and European Airport Capacity Assessment Using the GMU Macroscopic Capacity Model"""Introduction"; "MCM Approach"; ""MCM Validation"; "MCM Assessment of U.S. and

European Airports"; ""MCM Comparisons"; ""Conclusions""; ""References""; ""Section II: Economics of Congestion""; ""Chapter 6 Forecasting and Economic Analysis for Aviation Systems Engineering"": ""Introduction""; ""Evaluating National Impacts of ATM Investments""; "Generating an Unconstrained Forecast""; "Generating a Constrained Forecast""; ""Estimating and Closing the Performance Gap"" "Estimating Airline Benefits from ATM Investments"""Overview of the Air Carrier Cost-Benefit Model""; ""Derivation of the Air Carrier Cost-Benefit Model""; ""LVLASO Scenario""; ""Conclusions""; ""References""; "Chapter 7 Impact of Air Traffic Management on Airspace User Economic Performance""; ""Introduction""; ""Airline Cost Drivers and ATM Actions""; ""Estimates of System-Wide Excess Cost to Airlines""; "Example of the Impact of ATM Improvements on Long-Term Airline Costs: Fleet Utilization and ATM Improvements"" "The Larger Picture: The Influence of ATM on Demand-Related Airline Decisions"""Chapter 8 Effects of Schedule Disruptions on the Economics of Airline Operations""; ""Introduction"; ""Scope of Disruptions""; ""Alternatives Available to the Airlines for Handling Disruptions""; ""Cost Implications of Disruptions to the Airlines""; ""Snowstrom Event at Boston""; ""Aggregated Costs of Disruptive Events""; ""Conclusions""; ""Chapter 9 Modeling an Airline Operations Control Center""; ""Introduction""; ""Modeling Structure and Hypotheses""; ""Model Identification and Calibration""; ""Conclusions"" ""References""