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Nota di contenuto	Front matter -- Table of Contents -- List of Tables -- List of Figures -- Appendices -- Acknowledgements -- Preface: On the Shoah as a Major Educational Topic -- I. Introduction -- II. A Brief History of Shoah Education -- III. The National Survey of Shoah Education in Israel: Data Collection Methods and Analysis Techniques -- IV. A Portrait of Shoah Education in Israeli State Schools -- V. Goals and Messages of Shoah Education -- VI. Beliefs, Values and Attitudes towards the Shoah -- VII. Evaluation of Shoah Education -- VIII. The Journey to Poland -- IX. Improving Shoah Education -- X. Reflections and Provisional Conclusions -- Appendices -- References -- Index
Sommario/riassunto	This pedagogical and sociological analysis of Shoah education in Israeli state schools is based on an empirical survey conducted from 2007-2009 among junior high school and high school students, teachers and principals in general and religious schools, and experts in the field. It explores issues such as materials and methods, beliefs and attitudes, messages imparted, pedagogical challenges, and implications for national and religious identity and universal values. Comparative and multi-dimensional analyses of sub-populations, such as by age and type of school, were conducted. The practical and theoretical implications of the findings are considered in the context of Shoah education in Israel and other educational settings over the past half century.

End-Point State Equality Constraints; 2.6.1 Euler-Lagrange Equations; 2.6.2 Special Cases; 2.7 Numerical Solution of Two-Point Boundary Value Problems; 2.7.1 Shooting Method; 2.7.2 Collocation Method; 2.8 Optimal Terminal Control with Interior Time Constraints
2.8.1 Optimal Singular Control2.9 Tracking Control; 2.9.1 Neighboring Extremal Method and Linear Quadratic Control; 2.10 Stochastic Processes; 2.10.1 Stationary Random Processes; 2.10.2 Filtering of Random Noise; 2.11 Kalman Filter; 2.12 Robust Linear Time-Invariant Control; 2.12.1 LQG/LTR Method; 2.12.2 H2/H8 Design Methods; 2.13 Summary; Exercises; References; 3 Optimal Navigation and Control of Aircraft; 3.1 Aircraft Navigation Plant; 3.1.1 Wind Speed and Direction; 3.1.2 Navigational Subsystems; 3.2 Optimal Aircraft Navigation; 3.2.1 Optimal Navigation Formulation
3.2.2 Extremal Solution of the Boundary-Value Problem: Long-Range Flight Example3.2.3 Great Circle Navigation; 3.3 Aircraft Attitude Dynamics; 3.3.1 Translational and Rotational Kinetics; 3.3.2 Attitude Relative to the Velocity Vector; 3.4 Aerodynamic Forces and Moments; 3.5 Longitudinal Dynamics; 3.5.1 Longitudinal Dynamics Plant; 3.6 Optimal Multi-variable Longitudinal Control; 3.7 Multi-input Optimal Longitudinal Control; 3.8 Optimal Airspeed Control; 3.8.1 LQG/LTR Design Example; 3.8.2 H8 Design Example; 3.8.3 Altitude and Mach Control; 3.9 Lateral-Directional Control Systems
3.9.1 Lateral-Directional Plant3.9.2 Optimal Roll Control; 3.9.3 Multi-variable Lateral-Directional Control: Heading-Hold Autopilot; 3.10 Optimal Control of Inertia-Coupled Aircraft Rotation; 3.11 Summary; Exercises; References; 4 Optimal Guidance of Rockets; 4.1 Introduction; 4.2 Optimal Terminal Guidance of Interceptors; 4.3 Non-planar Optimal Tracking System for Interceptors: 3DPN; 4.4 Flight in a Vertical Plane; 4.5 Optimal Terminal Guidance; 4.6 Vertical Launch of a Rocket (Goddard's Problem); 4.7 Gravity-Turn Trajectory of Launch Vehicles
4.7.1 Launch to Circular Orbit: Modulated Acceleration

Sommario/riassunto

"Advanced Control of Aircraft, Missiles and Spacecraft introduces the reader to the concepts of modern control theory applied to the design and analysis of general flight control systems in a concise and mathematically rigorous style. It presents a comprehensive treatment of both atmospheric and space flight control systems including aircraft, rockets (missiles and launch vehicles), entry vehicles and spacecraft (both orbital and attitude control). The broad coverage of topics emphasizes the synergies among the various flight control systems and attempts to show their evolution from the same set of physical principles as well as their design and analysis by similar mathematical tools. In addition, this book presents state-of-art control system design methods - including multivariable, optimal, robust, digital and nonlinear strategies - as applied to modern flight control systems. Advanced Control of Aircraft, Missiles and Spacecraft features worked-out examples and problems at the end of each chapter as well as a number of MATLAB/ SIMULINK examples that are realistic and representative of the state-of-the-art in flight control"--
"this book presents state-of-art control system design methods - including multivariable, optimal, robust, digital and nonlinear strategies - as applied to modern flight control systems"--
