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| Nota di contenuto | 1. Unmanned Aerial Vehicle for Agriculture Surveillance 17 -- 2. Review of Agricultural Unmanned Aerial Vehicles (UAV) Obstacle Avoidance System 20 -- 3. Motion Planning of UAV Swarm: Recent Challenges and Approaches 85 -- 4. Quadrotor-Type UAVs Assembly and Its Application to Audit Telecommunications Relays 16 -- 5. Robust Control Algorithm for Drones 83 -- 6. Military Aircraft Flight Control 141 -- 7. Simulation of a Mathematical Model of an Aircraft Using Parallel Techniques (MPI and GPU) 38 -- 8. Modeling and Simulation of APU Based on PEMFC for More Electric Aircraft 35 -- 9. Role of Human Factors in Preventing Aviation Accidents: An Insight 185 -- 10. The Impact of the Pandemic Effect on the Aviation in the Environmental Quality of the Air Transport and Travelers 32. |
| Sommario/riassunto | This book provides a comprehensive overview of aeronautics. It discusses both small and large aircraft and their control strategies, path planning, formation, guidance, and navigation. It also examines applications of drones and other modern aircraft for inspection, exploration, and optimal pathfinding in uncharted territory. The book includes six sections on agriculture surveillance and obstacle avoidance systems using unmanned aerial vehicles (UAVs), motion planning of UAV swarms, assemblage and control of drones, aircraft flight control for military purposes, the modeling and simulation of aircraft, and the environmental application of UAVs and the prevention of accidents. |