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Titolo	Small unmanned aircraft systems guide : exploring designs, operations, regulations, and economics / / Brent Terwilliger [and three others]
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ISBN	1-61954-396-6 1-61954-395-8
Descrizione fisica	1 online resource (xx, 262 pages) : illustrations
Disciplina	629.13339
Soggetti	Drone aircraft Drone aircraft - History
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	History of UAS: where did they come from and where are they headed? -- Introduction -- Early predecessors -- Unmanned aircraft development -- From tactical to transformational technology -- Transition from UAV to UAS -- OpenSource to crowdfunding -- Related technology and innovative development -- Regulation set the stage for the (r)evolution -- Application of sUAS: understanding Uses -- Introduction -- Common Uses -- Recreation and hobby -- Precision agriculture -- Public safety and service -- Communications -- Aerial filming -- Cargo transport -- Environmental monitoring -- Training and education -- Research -- Emerging Uses and challenges -- On the horizon -- Variety of design: exploring the technological possibilities -- Introduction -- Platform design configurations -- Platform types -- Categories and designations -- System composition -- Major elements and equipment -- Aerial element -- Payload -- Ground-based command, control, and communication (C3) -- Human element -- Support equipment -- Legal, environmental, and operational considerations: a map to navigate the maze -- Introduction -- Regulatory framework -- Maintaining safety in the national airspace system -- Model aircraft and sUAS -- Approved operation of UAS -- Regulatory policies and resources -- Operating environment -- Visibility -- Altitude -- Hazards and obstacles -- Operational environments -- Weather -- Environmental considerations -- sUAS

operation -- General aeronautical knowledge -- Fixed-wing flight -- VTOL flight -- Remote operation -- Pilot-in-command and visual observer coordination -- Autonomous (automatic) operation -- Geofencing -- Data capture and processing -- Operational planning and preparation -- Schedule, coordinate, and conduct operations -- Hour logging and reporting -- Maintenance, calibration, and diagnosis -- sUAS operational considerations -- Business of unmanned aviation: from agencies to startups -- Introduction -- UAS stakeholders -- Organizational structures -- Stakeholder roles and collaboration -- Business opportunity and development -- Starting a business -- In field employment -- Acquisition, support, and cost planning -- Incorporating sUAS operations -- Growth areas and challenges -- Preparing for the future: accurate information makes all the difference -- Introduction -- Finding information -- Regulatory information -- UAS test sites and Center of Excellence -- Governmental-sponsored, Advocacy, and Public Outreach Organizations.
