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Through the new agreement, titled “ Unmanned Aircraft Systems (UAS)—Cellular Technologies ... To Skyward, that looks like enabling utility companies to inspect their electricity grids to ...

FAA Moves to Further America ' s Cellular-Connected Drone

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Operations

This has fueled a growing demand for aerial imagery, remote sensing and the unique data that can only be generated from drones, or unmanned aircraft systems (UASs). Accordingly, the interest of ...

2008 Electric Reliability Performance Report

Modern Civilizations need electricity, but do they need Utility companies? Deregulation, decarbonization, and decentralization are destroying the century-old hierarchy of centralized power generation ...

Value Creation in the Digital

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Energy Network

Those parties gathered Wednesday at the National Aviation Research & Technology Park to demonstrate the ways in which unmanned aircraft systems ... we did in 2016 and 2017 were very local to ...

Test flights aim to demonstrate utility of drones in natural disasters

This will depend on the owner's charging equipment and their local utility's billing policies. Long-term, Volvo is dedicated to vertical integration for EV production, hoping to bring the design ...

Volvo Details Big Plans to Improve

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Batteries, Infotainment, and Safety
Electric power available to those
payloads rises from 60W to
100-150W. ScanEagle 2 uses the
same Mark 4 catapults, SyHook
recovery system, and Insitu
Common Open-mission
Management Command and Control
...

From Dolphins to Destroyers: The
ScanEagle UAV
The FAA's approval of Helios
Visions Part 107.31 Beyond Visual
Line-of-Sight waiver makes the
drone services organization the
55th company in the United States
and one of approximately 38
Unmanned ...

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Helios Visions Becomes First
Drone Services Company in
Chicago, IL to Receive Beyond
Visual Line-of-Sight (BVLOS)
Waiver from FAA

In 2015, Tesla unveiled the Model X, which the company called "the safest, quickest, and most capable sport utility vehicle in ... 0-60 mph in 2.9 seconds. In 2017, Tesla released the more budget ...

The Greatest American Inventions
of the Past 50 Years

“ We knew back then that that was a resource that could be used to power the air station in an emergency, ” says Mick Wasco, the utilities ... the capacity of its electric vehicle fleet to ...

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How the Marine Corps Struck Gold in a Trash Heap As Part of the Pentagon ' s Fight Against Climate Change

11:15 PM local time, one UAS impacted in vicinity of Erbil Air Base, Iraq.' The abbreviation UAS typically stands for Unmanned Aircraft Systems, or a drone, indicating that the drone may have

...

Erbil Airport in Iraq is hit in drone attack aimed at US military base BRUSSELS (Reuters) - House prices in the European Union rose by 6.1% in the first quarter of this year from the same period of 2020, their biggest gain since 2007, the bloc's statistics office

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EU house prices post biggest annual increase since 2007
The presentation will conclude by describing the ways in which student feedback helped refine exchanges for new student cohorts in 2017. Interprofessional Education (IPE) prepares collaborative-ready ...

2017 Scholarship of Teaching & Learning Symposium
Those classes, held in March, focused on the Unmanned Aerial System (UAS) certification by the Federal Aviation ... GPS collection, public utility hearings, teaching GIS and more. Paige Ehrecke ...

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College of Arts and Sciences
In 2020, United Against Slavery (UAS) became the first-ever recipient ... signs of human trafficking to law enforcement since 2017, resulting in multiple victims being freed.

Jefferson Lines Participates in the United Against Slavery “ National Outreach Survey for Transportation ” Project
Energy & Utility, Healthcare & Life Sciences, and Oil & Gas. Our team makes sure to have deep research about the topics so that the most useful insights can be delivered to the professionals.

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Drone Simulator Market to
Witness Robust Growth by 2026
At least 52 people were killed
when a Philippine Air Force (PAF)
C-130H Hercules medium
transport ai... The US Army is
delaying plans to roll out a
Common Modular Open Suite of
Standards (CMOSS ...

Janes - News page
On Friday, May 28, 2021 at
approximately 7:33 p.m., Nevada
Highway Patrol troopers
responded to a fatal crash at
US-95A and US-50 in Silver
Springs. Preliminary investigation
shows that both a red ...

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NHP says mechanical failure suspected in fatal crash at US-50, US-95A roundabout in Silver Springs

which has been in the works since 2017. The brothers released a joint statement explaining the significance of the statue to them. "Today, on what would have been our Mother ' s 60th birthday ...

Prince Harry has already flown back to LA

Robeson County Church and Community Center will receive a one-time allocation from United Way's COVID-19 Community Relief Fund of \$25,000 to assist Robeson County residents with rent and utility ...

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Lumber River United Way announces funded partners
Sweeny credits Flirtey ' s inclusion in the FAA ' s Unmanned Aircraft Systems Integration Pilot ... with \$25 million from Dominion Energy. The utility gave that money to mitigate the effects ...

The Internet of Things (IoT) is a system of inter-connected devices, objects, and organisms. Among these devices, drones are gaining lots of interest. Drones are expected to communicate with cellular networks in the next generation networks (5G and beyond) which opens the door for another exciting research area.

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This book considers very important research areas in drone and cellular networks. It addresses major issues and challenges in drone-based solutions proposed for IoT-enabled cellular/computer networks, routing/communication protocols, surveillances applications, secured data management, and positioning approaches. It focuses mainly on smart and context-aware implementations.

This volume responds to the growing interest in adopting aerial robots (UAVs, or drones) for agricultural crop production, which are revolutionizing farming methods worldwide. The book

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Provides a detailed review of 250 UAVs that examines their usefulness in enhancing profitability, yield, and quality of crop production. Recent trends indicate an increase in agricultural drone production and use. Millions of dollars have been invested in start-ups that produce agro-drones in the past several years. North America, Europe, China, and the Far East have excelled in offering a large number of UAV models. Some of them are versatile, a few are specific, and many of them are low cost. With so many drone models (over 1200) available, how do farmers and agricultural specialists choose the models best for them? This compendium examines the most useful drones and provides the pertinent details

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about each drone, its producer, cost incurred, and its pros and cons. It covers their technical specifications, suitability for various purposes, previous performances in farms, and possible benefits to farmers. It covers fixed-wing drones, fixed-winged (hybrid) VTOL helicopters, multi-copters, tilted-wing drones, etc. The book includes a few drones meant more for military or other purposes (e.g. recreation/fun) but that could be easily modified and adapted for the farming sector. The reviews compare activities among the UAVs, such aerial imagery of crops, ability to provide spectral analyses to collect useful data about a crop ' s growth patterns, and how they can be used to gauge

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crop canopy temperature (i.e. water stress index), determine grain maturity, and much more.

Advances in high spatial resolution mapping capabilities and the new rules established by the Federal Aviation Administration in the United States for the operation of Small Unmanned Aircraft Systems (sUAS) have provided new opportunities to acquire aerial data at a lower cost and more safely versus other methods. A similar opening of the skies for sUAS applications is being allowed in countries across the world. Also, sUAS can access hazardous or inaccessible areas during disaster events and provide rapid response when needed. Applications of Small Unmanned Aircraft systems:

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Best Practices and Case Studies is the first book that brings together the best practices of sUAS applied to a broad range of issues in high spatial resolution mapping projects. Very few sUAS pilots have the knowledge of how the collected imagery is processed into value added mapping products that have commercial and/or academic import. Since the field of sUAS applications is just a few years old, this book covers the need for a compendium of case studies to guide the planning, data collection, and most importantly data processing and map error issues, with the range of sensors available to the user community. Written by experienced academics and professionals, this book serves as a guide on how to formulate

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sUAS based projects, from choice of a sUAS, flight planning for a particular application, sensors and data acquisition, data processing software, mapping software and use of the high spatial resolution maps produced for particular types of geospatial modeling. Features: Focus on sUAS based data acquisition and processing into map products Broad range of case studies by highly experienced academics Practical guidance on sUAS hardware, sensors, and software utilized Compilation of workflow insights from expert professors and professionals Relevant to academia, government, and industry Positional and thematic map accuracy, UAS curriculum development and workflow replicability issues This

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Book would be an excellent text for upper-level undergraduate to graduate level sUAS mapping application courses. It is also invaluable as a reference for educators designing sUAS based curriculum as well as for potential sUAS users to assess the scope of mapping projects that can be done with this technology.

Covering the design, development, operation and mission profiles of unmanned aircraft systems, this single, comprehensive volume forms a complete, stand-alone reference on the topic. The volume integrates with the online Wiley Encyclopedia of Aerospace Engineering, providing many new and updated articles for existing subscribers to that work.

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This book explores the economic and broader societal rationale for using unmanned aerial vehicle (UAV) or “drone” technologies as a complement to the current transport and logistics systems in several use cases in East Africa. The specific use cases examined include medical goods deliveries, food aid delivery, land mapping and risk assessment, agriculture, and transport and energy infrastructure inspection. Across these applications, the case for using UAVs is examined within the context of logistics objectives—total operating costs, speed, availability, and flexibility—as well as human, or societal, objectives. In the public health use case, as more low- and

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middle-income countries explore opportunities to improve efficiency and performance in their health supply chains and diagnostics networks, they face myriad choices about how best to use UAVs to improve product availability and public health outcomes and to reach the last mile. The high-level findings from this analysis are that, if examining commodity categories individually and looking exclusively at costs, delivery with UAVs in general is still more expensive for most categories. Although the cost is still higher, the most cost-effective use case examples include the transport of laboratory samples to selected destinations and delivery of life-saving items and blood. However, “ layering † ? several use

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cases can provide efficiencies and cost savings by allocating fixed costs across a greater number of flights and maximizing capacity and time utilization. From the perspective of public decision-makers, the cost effectiveness of UAVs cannot be analyzed without looking at the public health benefits, which may be substantial. Drone application in the other use cases examined in this book, such as mapping, risk assessment, and agriculture, is relatively more common than cargo drone operations, and the existing pilot initiatives in East Africa have delivered impressive results for speed and quality (precision). Food aid delivery by drones is still mostly at a planning, rather than implementation, stage. Drone

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Applications are rapidly evolving, and several use cases could gain impact and scale over the coming years.

The Complete Guide to Understanding the Structure of Homeland Security Law New topics featuring leading authors cover topics on Security Threats of Separatism, Secession and Rightwing Extremism; Aviation Industry 's 'Crew Resource Management' Principles'; and Ethics, Legal, and Social Issues in Homeland Security Legal, and Social Issues in Homeland Security. In addition, the chapter devoted to the Trans-Pacific Partnership is a description of economic statecraft, what we really gain from the TPP, and what

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The Power of Pop Culture in the Hands of ISIS describes how ISIS communicates and how pop culture is used expertly as a recruiting tool Text organized by subject with the portions of all the laws related to that particular subject in one chapter, making it easier to reference a specific statute by topic Allows the reader to recognize that homeland security involves many specialties and to view homeland security expansively and in the long-term Includes many references as a resource for professionals in various fields including: military, government, first responders, lawyers, and students Includes an Instructor Manual providing teaching suggestions, discussion

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Questions, true/false questions,
and essay questions along with the
answers to all of these

This book is devoted to the development of complex methods and means of their implementation with using UAVs aimed for improving the safety and efficiency of the energy system. The scientific problem of complex automated monitoring of the energy system objects with using UAVs has been solved, including the control of its elements in the visible and infrared range, the acoustic spectrum, as well as by the levels of the electric field strength. The scientific foundations of mathematical,

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Physical and statistical modeling of electromagnetic and acoustic fields in the elements of electric power objects of complex spatial configurations have been created, taking into account the possibility of the appearance of such nonlinear processes as corona discharges and breakdowns at long air gaps. Improved methods are proposed for determining the exact location of accidents on power lines using UAVs on the basis of the developed mathematical models and the obtained analytical expressions. Conceptual foundations for the creation of methods and means for monitoring the state of insulation, lightning protection systems and the integrity of the structures of electric power facilities with using

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UAVs have been formed.

Experts in data analytics and power engineering present techniques addressing the needs of modern power systems, covering theory and applications related to power system reliability, efficiency, and security. With topics spanning large-scale and distributed optimization, statistical learning, big data analytics, graph theory, and game theory, this is an essential resource for graduate students and researchers in academia and industry with backgrounds in power systems engineering, applied mathematics, and computer science.

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