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Unmanned Aircraft Systems (UAS) are a rapidly evolving technology with an expanding array of diverse applications. In response to the continuing evolution of this technology, this book discusses unmanned aerial vehicles (UAVs) and similar systems, platforms and sensors, as well as exploring some of their environmental applications. It explains how they can be used for mapping, monitoring, and modeling a wide variety of different environmental aspects, and at the same time addresses some of the current constraints placed on realizing the potential use of the technology such as flight duration and distance, safety, and the invasion of privacy etc. Features of the book: Provides necessary theoretical foundations for pertinent subject matter areas Introduces the role and value of UAVs for geographical data acquisition, and the ways to acquire and process the data Provides a synthesis of ongoing research and a focus on the use of technology for small-scale image and spatial data acquisition in an environmental context Written by experts of the technology who bring together UAS tools and resources for the environmental specialist Unmanned Aerial Remote Sensing: UAS for Environmental Applications is an excellent resource for any practitioner utilizing remote sensing and other geospatial technologies for environmental applications, such as conservation, research, and planning. Students and academics in information science, environment and natural resources, geosciences, and geography, will likewise find this comprehensive book a useful and informative resource.

The fourth edition of Media and Entertainment Law has been fully updated, analysing some of the most recent judgments in media law from across the United Kingdom, such as Cliff Richard v the BBC, Max Schrems v Facebook and the Irish Information Commissioner, developments on the 'right to be forgotten' (NT1 and NT2) and ABC v Daily Telegraph (Sir Philip Green). The book's two main themes are freedom of expression and an individual's right to privacy. Regulation of the communication industries is covered extensively, including discussion of the print press and its online editions following Leveson, traditional broadcasting regulations for terrestrial TV and radio as well as media activities on converged devices, such as tablets, iPads, mobile phone devices and 'on demand' services. Intellectual property law (specifically copyright) in the music and entertainment industries is also explored in the book's later chapters. Also new to this edition are sections on: A focus on freedom of expression: its philosophical foundations; the struggles of those who have fought for it; and the varied ways in which the courts interpret freedom of expression regarding the taking and publishing of photographs. The 'right to be forgotten', data breaches, and the General Data Protection Regulation (GDPR). The media's increasing access to the courts, particularly when considering the privacy of those who are suspected of sexual offences. Press regulators, broadcasting and advertising regulations, and film and video regulations. Election and party-political broadcast regulations, with a focus on social media and recent election fraud. The emergence of online music distribution services, internet radio and free digital streaming music services, and their effect on the music industry. The fourth edition also features a variety of pedagogical features to encourage critical analysis of case law and one's own beliefs.

This book provides a valuable reference for digital forensics practitioners and cyber security experts operating in various fields of law enforcement, incident response and commerce. It is also aimed at researchers seeking to obtain a more profound knowledge of Digital Forensics and Cybercrime. Furthermore, the book is an exceptional advanced text for PhD and Master degree programmes in Digital Forensics and Cyber Security. Each chapter of this book is written by an internationally-renowned expert who has extensive experience in law enforcement, industry and academia. The increasing popularity in the use of IoT devices for criminal activities means that there is a maturing discipline and industry around IoT forensics. As technology becomes cheaper and easier to deploy in an increased number of discrete, everyday objects, scope for the automated creation of personalised digital footprints becomes greater. Devices which are presently included within the Internet of Things (IoT) umbrella have a massive potential to enable and shape the way that humans interact and achieve objectives. These also forge a trail of data that can be used to triangulate and identify individuals and their actions. As such, interest and developments in autonomous vehicles, unmanned drones and 'smart' home appliances are creating unprecedented opportunities for the research communities to investigate the production and evaluation of evidence through the discipline of digital forensics. "Spherical trigonometry was at the heart of astronomy and ocean-going navigation for two millennia. The discipline was a mainstay of mathematics education for centuries, and it was a standard subject in high schools until the 1950s. Today, however, it is rarely taught. Heavenly Mathematics traces the rich history of this forgotten art, revealing how the cultures of classical Greece, medieval Islam, and the modern West used spherical trigonometry to chart the heavens and the Earth."--Jacket.

This book constitutes the refereed proceedings of the 46th International Conference on Current Trends in Theory and Practice of Informatics, SOFSEM 2020, held in Limassol, Cyprus, in January 2020. The 40 full papers presented together with 17 short papers and 3 invited papers were carefully reviewed and selected from 125 submissions. They presented new research results in the theory and practice of computer science in the each sub-area of SOFSEM 2020: foundations of computer science, foundations of data science and engineering, foundations of software engineering, and foundations of algorithmic computational biology.

International Health and Safety at Work has been specially written in simple English for the thousands of students who complete the NEBOSH International General Certificate in Health and Safety each year. Fully revised in alignment with the 2019 syllabus, this fourth edition provides students with

all they need to tackle the course with confidence. Clear, easily accessible information is presented in full colour, with discussion of essential principles such as ILO and OSH conventions as well as legal frameworks from a range of countries. The book features practice questions and answers to test knowledge and increase understanding. International Health and Safety at Work remains the most effective tool for those working to fit international health and safety standards to local needs and practice.

Celebrating 40 years in print this is a new edition of the classic children's poem by Australia's favourite poet, A.B. 'Banjo' Paterson. Mulga Bill's Bicycle was written by Banjo Paterson in 1896. It was written at a time when cycling was a relatively new and popular social activity. Cycles were ridden everywhere, including in the outback by shearers and other workers who needed to travel cheaply. Mulga Bill's Bicycle tells the hilarious story of Mulga Bill, who thinks he's much better at cycling than he turns out to be. A resounding crash sends him back to his original mode of transport - his trusty horse. Kilmeny and Deborah Niland's delightful illustrations catch the mood and humour of Paterson's verse with great spirit, and this book has become an enduring classic.

Drone Law and Policy describes the drone industry and its evolution, describing the benefits and risks of its exponential growth. It outlines the current and proposed regulatory framework in Australia, the United States, the United Kingdom and Europe, taking into consideration the current and evolving technological and insurance landscape. This book makes recommendations as to additional regulatory and insurance initiatives which the authors believe are necessary to achieve an effective balance between the various competing interests. The 23 chapters are written by global specialists on crucial topics, such as terrorism and security, airport and aircraft safety, maritime deployment, cyber-risks, regulatory oversight, licensing, standards and insurance. This book will provide authoritative reference and expert guidance for regulators and government agencies, legal practitioners, insurance companies and brokers globally, as well as for major organisations utilising drones in industrial applications.

This accessible, alphabetical guide provides concise insights into a variety of digital research methods, incorporating introductory knowledge with practical application and further research implications. A-Z of Digital Research Methods provides a pathway through the often-confusing digital research landscape, while also addressing theoretical, ethical and legal issues that may accompany each methodology. Dawson outlines 60 chapters on a wide range of qualitative and quantitative digital research methods, including textual, numerical, geographical and audio-visual methods. This book includes reflection questions, useful resources and key texts to encourage readers to fully engage with the methods and build a competent understanding of the benefits, disadvantages and appropriate usages of each method. A-Z of Digital Research Methods is the perfect introduction for any student or researcher interested in digital research methods for social and computer sciences.

Offers a comprehensive, accessible introduction to experimental design, field monitoring skills for plants and animals, data analysis, interpretation and reporting This user-friendly book presents field monitoring skills for both plants and animals, within the context of a research project. This text provides a single resource to take the reader all the way through from the planning stage, into the field, guiding through sampling, organism identification, computer-based data analysis and interpretation, and finally how to present the results to maximise the impact of the work. Logically structured throughout, and revised extensively in the second edition, the book concentrates on the techniques required to design a field-based ecological survey and shows how to execute an appropriate sampling regime. It evaluates appropriate sampling and analytical methods, identifying potential problems associated with various techniques and how to mitigate these. The second edition of this popular text has updated reference material and weblinks, increased the number of case studies by 50% to illustrate the use of specific techniques in the field, added over 20% more figures (including 8 colour plates), and made more extensive use of footnotes to provide extra details. Extensions to topics covered in the first edition include additional discussion of: ethical issues; statistical methods (sample size estimation, use of the statistical package R, mixed models); bioindicators, especially for freshwater pollution; seeds, fecundity and population dynamics including static and dynamic life tables; forestry techniques including tree coring and tree mortality calculations; the use of data repositories; writing for a journal and producing poster and oral presentations. In addition, the use of new and emerging technologies has been a particular focus, including mobile apps for environmental monitoring and identification; land cover and GIS; the use of drones including legal frameworks and codes of practice; molecular field techniques including DNA analysis in the field (including eDNA); photo-matching for identifying individuals; camera trapping; modern techniques for detecting and analysing bat echolocation calls; and data storage using the cloud. Divided into six distinct chapters, Practical Field Ecology, 2nd Edition begins at project inception with a chapter on planning—covering health and safety, along with guidance on how to ensure that the sampling and experimental design is suitable for subsequent statistical analysis. Following a chapter dealing with site characterisation and general aspects of species identification, subsequent chapters describe the techniques used to survey and census particular groups of organisms. The final chapters cover analysing, interpreting and presenting data, and writing up the research. Offers a readable and approachable integrated guide devoted to field-based research projects Takes students from the planning stage, into the field, and clearly guides them through organism identification in the laboratory and computer-based data analysis, interpretation and data presentation Includes a chapter on how to write project reports and present findings in a variety of formats to differing audiences Aimed at undergraduates taking courses in Ecology, Biology, Geography, and Environmental Science, Practical Field Ecology, 2nd Edition will also benefit postgraduates seeking to sup-

port their projects.

Explore the world of the hit game through the eyes of the lovable robot, Pathfinder, as he chronicles his journey throughout the various environs of the Outlands to interview his fellow Legends -- all in the hope of finally locating his mysterious creator. The rich history of Apex Legends is explained by the characters that helped to shape it, as are their unique bonds of competition and camaraderie.

Offers teenagers advice on surviving natural disasters, embarrassing moments, and social situations.

If you think you need a boarding pass to fly, you're really missing out! Today, drones are everywhere. From film studios to farms, they're in the hands of photographers, commercial surveyors, and racers alike. This fully illustrated book explains how drones developed, where they're going, and which one you should choose. It even includes complete instructions to build both a simple drone and a super-fast FPV racer yourself. Whether you're flying indoors or out, buying or building, this book covers everything: Understand the Jargon: Flying has a lot of unfamiliar terminology, but this book will make it easy to master. Business or Pleasure: Every type of multicopter you might want is introduced, including explanations of which is best suited for what role. Get the Best Pictures: This edition includes an extended guide to the tech and composition tricks you can use to make your pictures stand out of the pack. Get the Best Video: A new shot-guide shows you how to get the most engaging aerial video, whatever your drone. Be an FPV Racer: There are complete step-by-step instructions for building your own FPV racer, or a surprisingly cheap wooden drone - both great projects. This is an Extended Second Edition. Following from the worldwide success of the first edition, which has been translated into numerous languages, this edition is not just fully updated to keep pace with the laws and the technology (including gesture controls), it is also new enough to thoroughly cover the fast-growing new sport of FPV drone racing, while still including a comprehensive guide to learning to fly any drone.

'Working the Cloud' is a business guide which shows you how to make the most of the Internet. Kate Russell outlines the free online tools which can help you run any kind of business, helping you to be more productive so that you may build a community, engage with customers and make the most of social media.

Introduction to Health and Safety at Work covers the fundamentals of occupational safety and health for the thousands of students who complete the NEBOSH National General Certificate in Occupational Health and Safety each year. This seventh edition closely follows the NEBOSH National General Certificate syllabus which was updated in 2019 and comes into use in 2020. The highly illustrated content covers all of the essential elements of health and safety management, the legal framework, risk assessment and control standards and also includes checklists, report forms and record sheets to supplement learning. It also has an extensive summary of current health and safety legislation. • Aligned to the NEBOSH National General Certificate in Occupational Health and Safety • Practice questions and answers to test knowledge and increase understanding • Complete with a companion website containing extra resources for tutors and students The book is suitable for all students following a level 3 Health and Safety course and a source of reference and guidance for managers at work in the UK. Written by renowned authors, this book is often provided as part of the Certificate course and is essential reading for a student.

The terrorist attacks on the World Trade Center in New York on 11 September 2001 saw the start of the so-called war on terror. The aim of 'In the Name of Security - Secrecy, Surveillance and Journalism' is to assess the impact of surveillance and other security measures on in-depth public interest journalism. How has the global fear-driven security paradigm sparked by 11 September affected journalism? At the core of the book sits what the authors have labeled the 'trust us dilemma'. Governments justify passing, at times, oppressive and far-reaching anti-terror laws to keep citizens safe from terror. By doing so governments are asking the public to trust their good intentions and the integrity of the security agencies. But how can the public decide to trust the government and its agencies if it does not have access to information on which to base its decision? 'In the Name of Security - Secrecy, Surveillance and Journalism' takes an internationally comparative approach using case studies from the powerful intelligence-sharing group known as the Five Eyes consisting of the US, Canada, the UK, Australia and New Zealand. Chapters assessing a selection of EU countries and some of the BRICS countries provide additional and important points of comparison to the English-speaking countries that make up the Five Eyes.

This document provides the comprehensive list of Chinese National Standards - Category: GB, GB/T Series of year 2017.

A beginner course for learning how to program the Parrot Mini Drones with the Tynker App. 8 lessons total. Each lesson is followed by two to three fun challenges to help with understanding. You just need an Android or iOS tablet and a Parrot Mini Drone. Good book for teachers and classrooms. Reviewed by a 4th and 5th-grade teacher.

The Live-Streaming Handbook is an authoritative and accessible guide to the wide ranging creative possibilities offered by live streaming for producing online media content. Peter Stewart presents coverage of a comprehensive range of livestreaming platforms, including Facebook Live, Periscope and YouTube Connect, offering a step by step guide to planning, filming, posting and promoting of live streamed shows, productions and events. The book also provides case studies exploring other successful livestreaming practices, valuable insights into how traditional broadcasters are using these technologies, and also security, safety and essential legal issues surrounding livestreaming.

Drone Futures explores new paradigms in Unmanned Aircraft Systems (UAS) in landscape and urban design. UAS or drones can be deployed with direct application to the built environment; this book explores the myriad of contemporary and future possibilities of the design medium, its aesthetic, mapping agency, AI, mobility and contribution to smart cities. Drones present innovative possibilities, operating in a 'hover space' between human scales of landscape observation and light aircraft providing a unique resolution of space. This book shows how UAS can be utilised to provide new perspectives on spatial layout, landscape and urban conditions, data capture for construction monitoring and simulation of design proposals. Author Paul Cureton examines both the philosophical use of these tools and practical steps for implementation by designers. Illustrated in full colour throughout, Drone Futures discusses UAS and their connectivity to other design technologies and processes, including mapping and photogrammetry, AR/VR, drone AI and drones for construction and fabrication, new mobilities, smart cities and city information models (CIMs). It is specifically geared towards professionals seeking to understand UAS applications and future development and students seeking an understanding of the role of drones and airspace in the built environment and its powerful geographic imaginary. With international contributions, multidisciplinary sources and case studies, Drone Futures examines new powers of flight for visualising, interpreting and presenting landscapes and urban spaces of tomorrow.

Aviation and Maritime Security Act 1990 (UK) The Law Library presents the official text of the Aviation and Maritime Security Act 1990 (UK). Updated as of March 26, 2018 This book contains: - The complete text of the Aviation and Maritime Security Act 1990 (UK) - A table of contents with the page number of each section

The Handbook of Unmanned Aerial Vehicles is a reference text for the academic and research communities, industry, manufacturers, users, practitioners, Federal Government, Federal and State Agencies, the private sector, as well as all organizations that are and will be using unmanned aircraft in a wide spectrum of applications. The Handbook covers all aspects of UAVs, from design to logistics and ethical issues. It is also targeting the young investigator, the future inventor and entrepreneur by providing an overview and detailed information of the state-of-the-art as well as useful new concepts that may lead to innovative research. The contents of the Handbook include material that addresses the needs and 'know how' of all of the above sectors targeting a very diverse audience. The Handbook offers a unique and comprehensive treatise of everything one needs to know about unmanned aircrafts, from conception to operation, from technologies to business activities, users, OEMs, reference sources, conferences, publications, professional societies, etc. It should serve as a Thesaurus, an indispensable part of the library for everyone involved in this area. For the first time, contributions by the world's top experts from academia, industry, government and the private sector, are brought together to provide unique perspectives on the current state-of-the-art in UAV, as well as future directions. The Handbook is intended for the expert/practitioner who seeks specific technical/business information, for the technically-oriented scientists and engineers, but also for the novice who wants to learn more about the status of UAV and UAV-related technologies. The Handbook is arranged in a user-friendly format, divided into main parts referring to: UAV Design Principles; UAV Fundamentals; UAV Sensors and Sensing Strategies; UAV Propulsion; UAV Control; UAV Communication Issues; UAV Architectures; UAV Health Management Issues; UAV Modeling, Simulation, Estimation and Identification; MAVs and Bio-Inspired UAVs; UAV Mission and Path Planning; UAV Autonomy; UAV Sense, Detect and Avoid Systems; Networked UAVs and UAV Swarms; UAV Integration into the National Airspace; UAV-Human Interfaces and Decision Support Systems; Human Factors and Training; UAV Logistics Support; UAV Applications; Social and Ethical Implications; The Future of UAVs. Each part is written by internationally renowned authors who are authorities in their respective fields. The contents of the Handbook supports its unique character as a thorough and comprehensive reference book directed to a diverse audience of technologists, businesses, users and potential users, managers and decision makers, novices and experts, who seek a holistic volume of information that is not only a technical treatise but also a source for answers to several questions on UAV manufacturers, users, major players in UAV research, costs, training required and logistics issues.

Thorough but compact guide for walkers and climbers, written by a team of expert authors, sets out all the skills and knowledge you need for safe walking in the hills or mountain regions.

Provides the most practical and accessible survival skills and information necessary to survive the worst circumstances and make it out alive.

This book goes behind the scenes of working innovation labs to distill a rigorous set of best practices. Apply these to unleash the innovation that will give your enterprise a digital competitive advantage.

This book constitutes the refereed proceedings of the 11th IFIP TC 6/TC 11 International Conference on Communications and Multimedia Security, CMS 2006, held in Linz, Austria, in May/June 2010. The 23 revised full papers presented were carefully reviewed and selected from 55 submissions. The papers are organized in topical sections on WiFi and RF security; XML and web services security; watermarking and multimedia security; analysis and detection of malicious code and risk management; VoIP security; biometrics; applied cryptography; and secure communications.

Learn Why, What, Where, When Who and How behind the technologies of the AI & ML powering the Agents of Automation in a simple mannerKey features Explore various trends of Automation impacting our lives today. Explains the reasons behind the proliferations of the various bots and autonomous agents. Explores the various areas being impacted by the use of these new workforce made of machines. Examines the components that make up Robots, Chatbots, Autonomous cars and Drones. Throws a light on the various limitations and threats encountered by the Agents of Automation Explores how, Blockchain can be used to protect IOT, Robots, Drones and Autonomous cars. Throws a light on the various tools used to build Robots, Chatbots and RPA. Outlines the steps undertaken to manage while building projects to deploy the Agents of Automation. Description We are faced with automatic machines and autonomous agents gradually replacing a lot of activities, hitherto have been carried out by humans. From airports to call centers, shop floors in the factory to accounting and finance departments in large businesses, we are finding increasing applications of AI & ML led automation. Most of the time, the autonomous machines we interact with or work with, like the Robots, Drones and Self driving cars evoke awe, inspiration & perplexity at the same time. They seem to be the tools only used by the most technology empowered organizations and technology geeks. The effort of this book is to go under the veil of all these automation agents, explain their benefits and expose the way they work by leveraging hardware and software powered by AI & ML as well. We expect the book to demystify these technologies to the learners in a reader friendly manner without using too much of jargon, egging them to take the next step to develop a passion to follow and leverage these trends for their productivity and enhance their quality of life. What will you learn From this book, you will get a very good idea about the various agents of automation like IOT, Robots, Chatbots, and Robotic Process Automation, Drones and Autonomous cars. Why do we use these machines? Where do we use them? Where do we find their applications? What are the components that go into making of these machines? High level knowledge on how we can build them and what are the advantages, disadvantages, risks and appropriate way to limit these risks. Who this book is for This book is for all the students and those passionate to get a fundamental knowledge on various aspects of Disruptive technologies prevalent today like IOT, AI, ML, Blockchain and Automation. Engineering students, CXOs in organizations, Government officials, Digital natives and the young generation of technology enthusiasts will find this book extremely interesting and informative. Table of contents 1. Introduction to Automated Personal Assistants: Past, Present & The Future 2. Disruptive models led by digitization 3. Machine Learning and Artificial Intelligence, The languages of Automation 4. Internet Of Things, Industry 4.0 And Factories Of Tomorrow 5. Robots 6. Robotic Process Automation 7. Drones 8. Chatbots & Voice Assistants 9. Autonomous Cars 10. Artificial Intelligence & Automation Gone Wrong 11. Blockchain-The New Generation Tool for Cybersecurity 12. Blockchain As A Protector of The Agents of Automation 13. Summary and Conclusion 14. CHAPTER WISE QUESTIONS 15. GLOSSARY: AGENTS OF AUTOMATION About the author Deepika M http://linkedin.com/in/deepika2019 Deepika is CCNA/CCNP/CCIE certified Computer Engineering graduate from VIT University, Vellore and a Cybersecurity professional with over 4 years' experience in Networking & Cybersecurity from Cisco. She is an MBA in General Management with specialization in Finance, Mar-

