

Buku Baharu/ New Books

Julai 2026

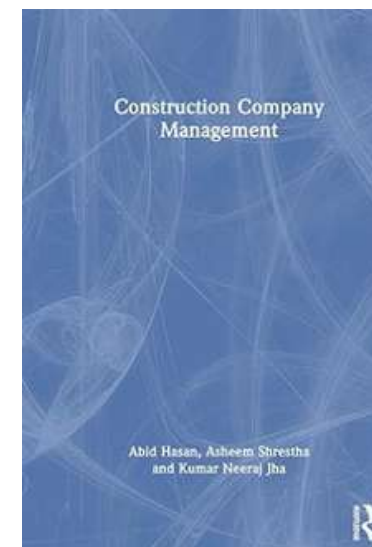
PERPUSTAKAAN LINGKUNGAN KEDUA

Title : Construction company management
Author : Abid Hasan, Asheem Shrestha and Kumar Neeraj Jha
ISBN : 9781032121123
Publisher : Routledge
Year : 2025
Call Number : HD9715.A2H337 3

Abstract

Construction Company Management will give readers a detailed understanding of the critical aspects of managing a successful construction company in a dynamic and complex construction business environment characterised by intense competition, supply chain disruptions, and rapid changes in technology, regulations, client preferences, and market conditions.

The book will introduce readers to different dimensions of construction company management. The topics covered reflect current business practices in the construction industry, including company strategy and business models, stakeholder management, contract management, resource management, risk management, knowledge management, company finance, digital innovation, organisational resilience, and the regulatory environment. The book also includes much-needed discussions on ethics, integrity and professional standards, and diversity, equity, and inclusion in construction companies. It explores the opportunities and challenges relevant to construction company management in global contexts with the help of case studies from different regions of the world.



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More Info :

<https://tinyurl.com/9tuktjhp>

Title : **Building and facilities maintenance management : an innovative operational approach**
Author : **Jason Challender and Robert Challender**
ISBN : **9781032415871**
Publisher : **Routledge**
Year : **2025**
Call Number : **TH3361.C483 3**

Abstract

Building and Facilities Maintenance Management: An Innovative Operational Approach is a new introductory textbook aimed at students who are studying building maintenance and asset management for the first time as part of their undergraduate or foundation course. The book plugs a gap in the current curriculum and literature which must now seek to educate emerging professionals about the significance of the operational phase of a built asset's lifecycle, if the challenges of the day are to be met head on.

The book will help readers enhance their awareness, understanding and breadth of knowledge of the issues around improving organisational maintenance management. A handy guide for emerging professionals, this practical book is also ideal reading for anyone studying facilities management, building surveying, construction management, real estate and property management.



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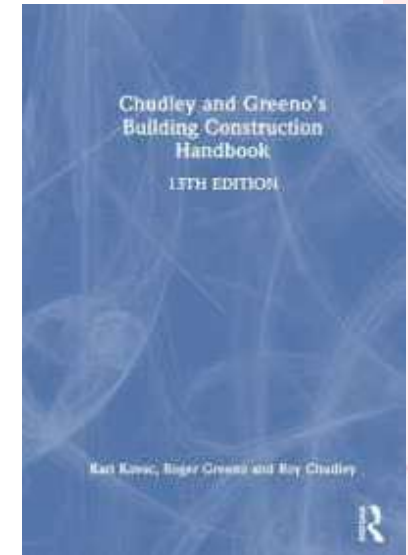
<https://tinyurl.com/36eseu4a>

Title : Chudley and Greeno's building construction handbook
Author : Karl Kovac, Roger Greeno and Roy Chudley
ISBN : 9781032492902
Publisher : Routledge
Year : 2024
Call Number : TH151.K638 2024 3

Abstract

The 13th edition of Chudley and Greeno's Building Construction Handbook remains THE authoritative reference for all construction students and professionals. The principles and processes of construction are explained with the concepts of design included where appropriate. Extensive coverage of building construction practice, techniques and regulations representing both traditional procedures and modern developments are included to provide the most comprehensive and easy-to-understand guide to building construction.

This new edition has been updated to reflect recent changes to the Building Regulations, as well as including new material on modern methods of construction, greater emphasis on sustainability, health and safety, and coverage of heat pumps, photovoltaics, underfloor heating and rainwater harvesting.



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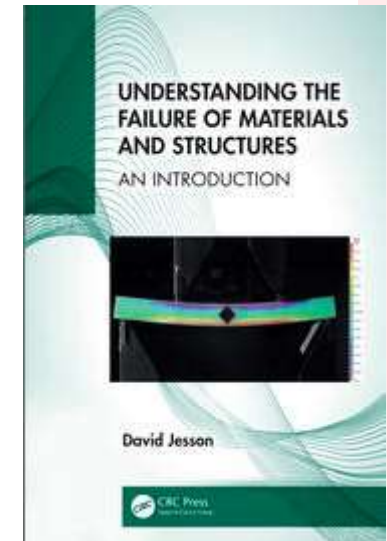
<https://tinyurl.com/4xdtabpr>

Title : **Understanding the failure of materials and structures : an introduction**
Author : **David Jesson**
ISBN : **9780367368401**
Publisher : **CRC Press**
Year : **2025**
Call Number : **TA656.J437 3**

Abstract

Understanding the Failure of Materials and Structures introduces practical aspects of mechanical characterisation of materials and structures. It gives those with little or no prior experience insight into the process of developing everyday products, issues behind some high-profile failures, and tools to begin planning a programme of research.

Written in an easily accessible manner, the work discusses fundamentals of the physical world, highlighting the range of materials used and varied applications, and offers a brief history of materials development. It covers the role of materials structure in controlling materials properties and describes mechanical properties, such as stress, strain, stiffness, fracture, and fatigue. The book also features information on various modes of testing and strain measurement. It provides some discussion on topics that go beyond well-behaved test coupons, with thoughts on biomechanics, megastructures, and testing for applications in extreme environments. Finally, it covers how materials fail and the future of physical testing.



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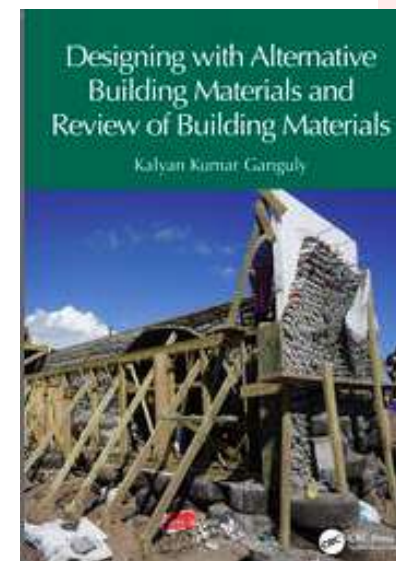
Title : **Designing with alternative building materials and review of building materials**
Author : **Kalyan Kumar Ganguly**
ISBN : **9781032333182**
Publisher : **CRC Press**
Year : **2025**
Call Number : **TA403.G336 3**

Abstract

This book explores alternative building materials and their test results. It includes a review of common building materials, earth engineering and construction, suitable soil types, soil mechanics and production, masonry construction, rammed earth construction, the use of ferro-cement units in projects, and the application of fibre-reinforced concrete. Other topics such as project management, computer-aided design, education and training for engineers, construction work, quality control, safety aspects, communication, applications and case studies, accompanied by construction photographs, are covered in this book.

Features:

Focuses on alternative building materials and their applications in projects. Provides a useful overview of earth and concrete alternative construction materials. Comprehensively covers different types of fibre-reinforced concrete. Explains relevant sustainability and environmental benefits. Includes a case study on carbon fibre composite material used for strengthening a column.



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<https://tinyurl.com/mrv3reya>

Title : **Design of event-driven SPAD-based 3D image sensors**
Author : **Rubén Gómez-Merchán, Juan Antonio Leñero-Bardallo and Ángel Rodríguez-Vázquez**
ISBN : **9781032513539**
Publisher : **CRC Press**
Year : **2025**
Call Number : **TK6592.O6G646 3**

Abstract

The book presents a top-down circuit description for the implementation of asynchronous vision sensors based on Single-Photon Avalanche Diodes (SPADs). It provides design considerations to convey the SPADs pulses through a channel shared by all the pixels. The book also presents architectures where dynamic vision sensors and SPADs converge.

Design of Event-Driven SPAD-Based 3D Image Sensors provides detailed technical insights about novel image sensor architectures with SPADs with asynchronous operation. At the sensor level, the book provides asynchronous circuitry to read and arbitrate the pixel outputs. The authors explore new LiDAR architectures with asynchronous operation and provide insights into their design. A detailed benchmark of modern and competitive LiDAR systems is also presented. At the pixel level, the book provides design considerations to convey the SPADs pulses through a channel shared by all the pixels. At the sensor level, the book provides asynchronous circuitry to read and arbitrate the pixel outputs. Finally, experimental results of very novel LiDAR systems with asynchronous operation will be provided and analyzed.



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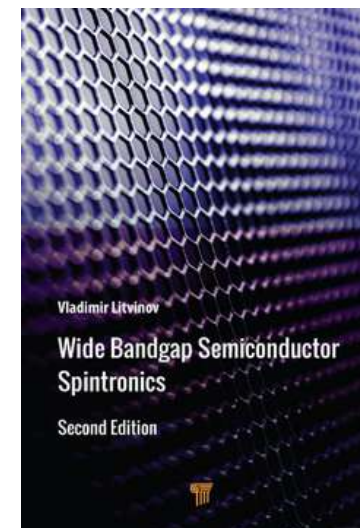
More Info :

<https://tinyurl.com/4bnyad59>

Title : **Wide bandgap semiconductor spintronics/ Second edition**
Author : **Vladimir Litvinov**
ISBN : **9789815129205**
Publisher : **Jenny Stanford Publishing**
Year : **2024**
Call Number : **TK7871.85.L5385 2024 3**

Abstract

This second edition of the book presents spintronic properties of III–V nitride semiconductors. As wide bandgap III-nitride nanostructures are relatively new materials, the book pays particular attention to the difference between zinc-blende GaAs- and wurtzite GaN-based structures where the Rashba spin-orbit interaction plays a crucial role in voltage-controlled spin engineering. It also deals with topological insulators and discusses electrically driven zero-magnetic-field spin-splitting of surface electrons with respect to the specifics of electron-localized spin interaction and voltage-controlled ferromagnetism. It describes the recently identified zero-gap state—an anomalous quantum semimetal. The book comprises calculation of topological indexes in semiconductor and semimetal phases. It compares results that follow from the low-energy model and the Bernevig–Huges–Zhang model, which accounts for the full-Brillouin-zone electron spectrum. It also discusses the fractional quantization of Hall conductance and performs the direct calculation of Chern numbers for the inverted GaN/InN quantum well, determining topological properties by Chern number $|C|=2$.



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<https://tinyurl.com/ypm3se7b>

Title : **Rahsia di sebalik ilmu fizik**
Author : **Mohd Azman Hashim @ Ismail**
ISBN : **9789674407391**
Publisher : **Penerbit USIM**
Year : **2020**
Call Number : **BP190.5.S3A96 3**

Abstract

Buku ini membincangkan beberapa aspek kejadian melalui ciptaan-Nya untuk menyaksikan kebesaran Allah SWT. Penyaksian ini memerlukan ilmu supaya manusia dapat merasai kewujudan semua ini yang datangnye daripada pencipta yang mutlak iaitu Allah SWT. Bidang ilmu yang pelbagai di alam sebaiknya boleh membawa kepada penyaksian bahawa alam ini dijadikan melalui kebesaran dan kebijaksanaan Allah SWT yang mengaturnya. Syariat Islam tidak pernah menghalang ahli sains untuk mengemukakan teori, membuat penyelidikan dan menghasilkan penemuan baharu dalam bidang sains. Sains pula merupakan salah satu bidang ilmu yang membincangkan fenomena alam fizikal sahaja melalui proses pemerhatian, eksperimen dan induksi. Buku Rahsia di Sebalik Ilmu Fizik adalah satu usaha kecil bagi membawa pembaca menyaksikan kehebatan, kekuasaan dan keilmuan Allah SWT dlm mencipta sesuatu dari sekecil-kecil hinggalah sebesar-besar kejadian dengan penulisan yang telah dipermudahkan dari kaca mata fizik.



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<https://tinyurl.com/yhhx77ej>

Title : Nak jadi jurutera? : panduan membina kerjaya kejuruteraan
Author : Zainal Kamarul Bahari
ISBN : 9786294960893
Publisher : UiTM Press
Year : 2025
Call Number : TA157.Z35 3



Abstract

Terdapat pelbagai cabang kerjaya kejuruteraan yang boleh dipilih selepas tamat pengajian kursus ijazah sarjana muda kejuruteraan. Ikutilah panduan yang disediakan dalam buku ini sebagai persediaan awal dalam membina kerjaya kejuruteraan. Dari pemilihan syarikat dan organisasi, penyediaan vitae kurikulum, permohonan kerja, persediaan menghadapi temu duga sehinggalah setelah mendapat dan menerima tawaran kerja.



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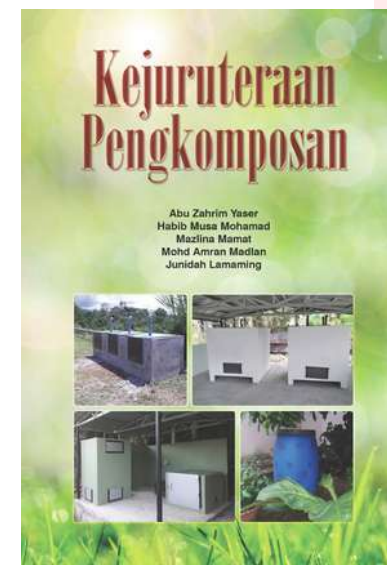
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<https://tinyurl.com/4nd82tb4>

Title : **Kejuruteraan pengkomposan**
Author : **Abu Zahrim Yaser, Habib Musa Mohamad, Mazlina Mamat, Mohd. Amran Madlan and Junidah Lamaming**
ISBN : **9789672738046**
Publisher : **UMS Press**
Year : **2021**
Call Number : **TD794.5.A28 3**

Abstract

Penukaran sisa organik kepada kompos/baja organik adalah kaedah pemprosesan sisa yang mapan. Penghasilan kompos yang berkualiti tinggi dalam skala yang besar perlu dilakukan dengan mengawal dan mengoptimumkan parameter-parameter kejuruteraan. Dalam buku ini, parameter-parameter yang perlu dipantau berserta ujian-ujian yang perlu dilakukan untuk menghasilkan baja kompos yang berkualiti dibincangkan secara terperinci. Peringkat sebelum dan pascapemprosesan dalam pengkomposan, jenis reaktor pengkomposan, penentuanimbangan tenaga dan haba serta model kinetik yang digunakan dalam pengkomposan turut disertakan. Selain membincangkan penentuan campuran awal kompos serta pengubahsuaian nutrien dan kelembapan, penentuan pengudaraan dalam sistem pengkomposan turut diselitkan. Buku ini turut mengupas lebih lanjut tentang sistem pengudaraan dan pengadukan yang perlu dititikberatkan semasa proses pengkomposan berlangsung.



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<https://tinyurl.com/48yfhx94>

Title : Pengenalan kepada termodinamik
Author : Fauziah Sulaiman
ISBN : 9789672166689
Publisher : UMS Press
Year : 2019
Call Number : TJ265.F38 3

Abstract

Buku ini dihasilkan untuk memberikan penerangan dan perbincangan asas topik termodinamik dan perkara-perkara asas berkaitan. Walaupun penerangannya ringkas, ia dapat memberikan kesan kepada pelajar agar dapat lebih memahami ilmu fizik yang sentiasa berlaku di sekeliling. Setiap bab dimulakan dengan penjelasan berkenaan teori dan diikuti dengan contoh-contoh yang berkaitan.

Ilmu termodinamik ialah satu ilmu dalam bidang fizik yang melihat dan mengkaji kesan-kesan perubahan suhu, tekanan dan isi padu terhadap sistem-sistem fizikal pada skala makroskopik. Ilmu ini bukanlah sesuatu yang baharu bagi pelajar, namun penjelasan asas yang lebih mendalam dirasakan perlu bagi memudahkan pemahaman pelajar. Justeru, penerbitan buku ini diharap dapat menambah lagi koleksi rujukan buku fizik sedia ada dan dapat dijadikan sebagai bahan bacaan tambahan, terutamanya yang ditulis dalam Bahasa Malaysia.



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<https://tinyurl.com/yzcdhvfz>

Title : Menyingkap dunia saintis
Author : Noraziah Nordin
ISBN : 9786297636542
Publisher : Universiti Sains Islam Malaysia
Year : 2024
Call Number : Q141.N647 3



Abstract

Ibn Sina, al-Khwarizmi, al-Kindi, Isaac Newton dan Albert Einstein antara tokoh-tokoh saintis yang diketahui umum. Selain mereka, terdapat ramai lagi saintis lain yang terkemuka dalam sejarah Islam, Barat dan juga moden termasuk di Malaysia yang telah memberi sumbangan besar kepada dunia.

Buku Menyingkap Dunia Saintis menggabungkan semua maklumat yang perlu anda ketahui mengenai seorang saintis. Pembaca akan mengetahui dengan lebih terperinci gambaran seorang saintis di samping topik kepentingan sains dalam kehidupan. Melalui buku ini juga pembaca akan mengetahui bahawa saintis adalah kerjaya yang profesional, bergaya dan menyeronokkan.



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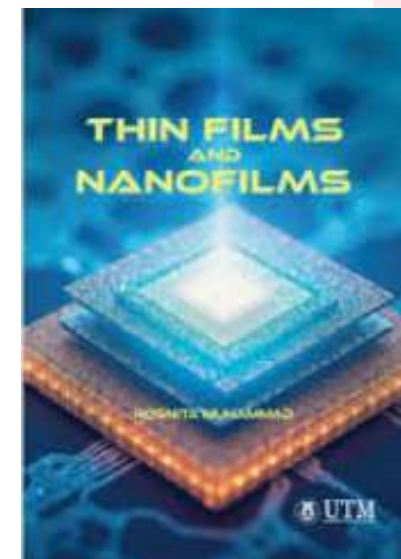
<https://tinyurl.com/mexny3x4>

Title : Thin films and nanofilms
Author : Rosnita Muhammad
ISBN : 9789835220807
Publisher : UTM Press
Year : 2025
Call Number : TA418.9.T45R637 3

Abstract

Basic research in thin film and nanofilm physics has grown thanks to the fast development of low-dimensional film technology and the strict needs for stability and repeatability in electronic applications. The industry realized that an inadequate understanding of the basic laws of film formation could not reliably meet its demands. This book provides comprehensive coverage of basic theory, growth processes, deposition and fabrication, properties, characterization measurements, and applications of thin films and nanofilms.

The book also reviews the latest developments in thin films and nanofilms and discusses future directions. Topics included in this book are: Physics of Thin Films and Nanofilms (Chapter 1), Growth of Thin Films and Nanofilms (Chapter 2), Deposition and Fabrication Techniques of Thin Films and Nanofilms (Chapter 3), Properties of Thin Films and Nanofilms (Chapter 4), Characterizations of Thin Films and Nanofilms (Chapter 5), and Applications of Thin Films And Nanofilms (Chapter 6). With its balanced coverage of theory, experiment, simulation, and some homework problems, this book will be essential reading in undergraduate and postgraduate courses on thin films. It is also a valuable resource for researchers in nanostructures and devices.



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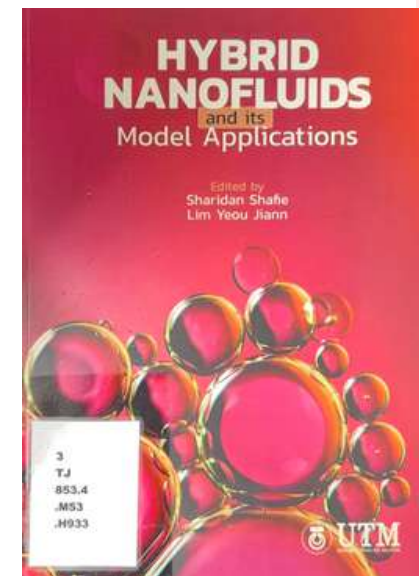
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<https://tinyurl.com/uu99ftsm>

Title : **Hybrid nanofluids and its model applications**
Editor : **Sharidan Shafie and Lim Yeou Jiann**
ISBN : **9789835220821**
Publisher : **UTM Press**
Year : **2024**
Call Number : **TJ853.4.M53H933 3**

Abstract

Conventional heat transfer fluids like water, oil, and ethylene glycol, commonly used in manufacturing and engineering, often lose energy during the heat transfer process, compromising the overall performance of processes. Nanoparticles enhance heat transfer in conventional fluids, forming heat transfer nanofluids. A hybrid nanofluid is a fluid containing more than one type of nanoparticle, believed to have better thermal performance than regular nanofluids due to synergistic effects. This book discusses recent developments and mathematical studies on nanofluids and hybrid nanofluids across various configurations, emphasising the necessity of theoretical investigations to guide experimental design due to the high cost of experimentation. The book begins by elucidating the fundamental principles of heat transfer and the role of nanoparticles in augmenting thermal performance. It discusses how nanoparticles, when dispersed in conventional fluids, create heat transfer nanofluids that exhibit enhanced heat transfer properties. Building upon this foundation, the concept of hybrid nanofluids is introduced, wherein multiple types of nanoparticles are combined to leverage synergistic effects for even greater thermal efficiency.



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Title : IoT panduan asas Raspberry Pi
Author : Ahmad Fitri Hassan
ISBN : 9789672831907
Publisher : Universiti Malaysia Pahang
Year : 2023
Call Number : TK5105.8857.A376 3

Abstract

Revolusi perindustrian dan IoT (Internet of Things) ialah dua terma yang semakin menarik minat semua pihak terutamanya golongan muda pada masa ini. Kemahiran teknikal berkait dengan IoT adalah semakin hangat diperkatakan sejajar dengan Dasar Revolusi Perindustrian ke-4 yang telah dilancarkan baru-baru ini. Apabila menyentuh berkenaan IoT, maka kita tidak dapat lari dari menyebut berkenaan dengan Raspberry Pi; satu peranti yang kerap digunakan bagi projek-projek IoT.

Buku IoT - Panduan Asas Raspberry Pi ini adalah hasil karya En. Ahmad Fitri Bin Hassan. Bagi mereka yang berminat membina projek secara DIY menggunakan Raspberry Pi, buku ini amat sesuai untuk dijadikan rujukan. Terdapat pelbagai projek mudah dan menarik yang dikongsikan oleh penulis menerusi buku ini. Antaranya, buku ini turut disertakan panduan lengkap bagaimana untuk membina laman web dengan menggunakan Raspberry Pi sebagai pelayan (server). Apa yang diperlukan adalah kreativiti dalam bagaimana dan apa yang anda ingin laksanakan.



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Title : Panduan asas dron DIY
Author : Zek Aman Abd Ghani
ISBN : 9786297641362
Publisher : Universiti Malaysia Pahang Al-Sultan Abdullah
Year : 2024
Call Number : TL685.35.Z435 3

Abstract

Revolusi teknologi dron ialah terma yang semakin menarik minat semua pihak terutamanya golongan generasi Z. Kemahiran berkaitan teknologi dron semakin hangat diperkatakan. Dron atau dikenali sebagai teknologi pesawat tanpa pemandu telah menjadi semakin popular dalam kalangan masyarakat kerana ia mudah dikendalikan. Ini disebabkan oleh teknologi dron yang menjadi semakin canggih dan telah dapat digunakan dalam pelbagai bidang terutamanya dalam bidang fotografi, perfileman pertanian, ketenteraan, pengawasan sempadan negara, operasi mencari dan menyelamatkan. Dalam bidang pendidikan, teknologi dron juga telah digunakan dalam bidang pengajaran dan pembelajaran dari peringkat pengajian sekolah rendah sehingga ke peringkat universiti. Oleh itu, penggunaan dron sebagai alat bantu mengajar telah banyak membantu para pendidik di institut pendidikan untuk menyediakan suasana pembelajaran yang menyeronokkan dengan menggunakan kaedah pengajaran yang menarik dan mudah difahami oleh pelajar. Apa yang diperlukan adalah kesungguhan dan kreativiti dalam bagaimana dan apa yang ingin dilaksanakan.



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<https://tinyurl.com/ymstj3hs>

Title : Panduan asas agri dron
Author : Zek Aman Abd. Ghani
ISBN : 9786297641379
Publisher : Universiti Malaysia Pahang Al-Sultan Abdullah
Year : 2024
Call Number : S494.5.I5Z435 3

Abstract

Revolusi teknologi dron ialah terma yang semakin menarik minat semua pihak terutamanya golongan generasi Z. Kemahiran berkaitan teknologi dron semakin hangat diperkatakan. Dron atau dikenali sebagai teknologi pesawat tanpa pemandu telah menjadi semakin popular dalam kalangan masyarakat kerana ia mudah dikendalikan. Ini disebabkan oleh teknologi dron yang menjadi semakin canggih dan telah dapat digunakan dalam pelbagai bidang terutamanya dalam bidang fotografi, perfileman pertanian, ketenteraan, pengawasan sempadan negara, operasi mencari dan menyelamatkan. Dalam bidang pendidikan, teknologi dron juga telah digunakan dalam bidang pengajaran dan pembelajaran dari peringkat pengajian sekolah rendah sehingga ke peringkat universiti. Oleh itu, penggunaan dron sebagai alat bantu mengajar telah banyak membantu para pendidik di institut pendidikan untuk menyediakan suasana pembelajaran yang menyeronokkan dengan menggunakan kaedah pengajaran yang menarik dan mudah difahami oleh pelajar. Apa yang diperlukan adalah kesungguhan dan kreativiti dalam bagaimana dan apa yang ingin dilaksanakan.



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More Info :

<https://tinyurl.com/92u8ytse>

Title : **Beyond passwords : protecting healthcare with authentication security**

Editor : **Nazhatul Hafizah Kamarudin, Yusnani Mohd Yussoff, Tutut Herawan**

ISBN : **9783031922466**

Publisher : **Springer**

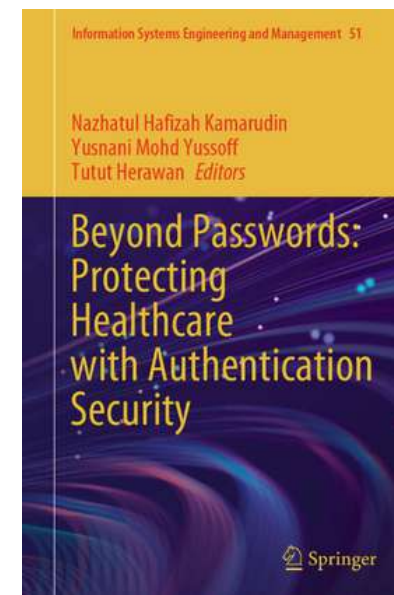
Year : **2026**

Call Number : **RA976.B4497 3**

Abstract

This book delves into the critical role of authentication in safeguarding e-health systems, advocating for stronger authentication schemes and the development of robust security protocols to protect sensitive healthcare information. The book also explores the implementation and testing of mobile e-health applications, demonstrating how password-less authentication can streamline communication between patients and healthcare providers while enhancing security.

Recognizing the reliance of many mobile e-health systems on third-party service providers, this book proposes a two-tier mobile e-health system framework that eliminates the need for third-party servers, thereby strengthening the confidentiality of network transmissions. This book offers a forward-thinking solution to modern e-health security challenges, empowering healthcare systems to move beyond traditional password-based authentication and towards a safer, more efficient future.



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