



Instituto Politécnico de Castelo Branco
Escola Superior de Tecnologia



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Nº 6 / novembro de 2017 ISSN: 2182-5947

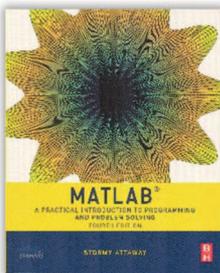
NOVIDADES

Associação Portuguesa da indústria da Refrigeração e Ar Condicionado (2016). *Sistemas de gestão técnica: Guia técnico 2016*. Lisboa: Associação Portuguesa das Empresas dos Sectores Térmico, Energético, Electrónico e Ambiente



“Este guia embora suportado pelo quadro legislativo em vigor, pretende ir mais além, apontando soluções técnicas concretas (sem nunca referir marcas ou tecnologias que limitem as opções dos leitores) e aconselhando quais as melhores práticas a adotar em cada um dos tipos de edifícios em causa, bem como das instalações técnicas presentes. Como é óbvio, até para não favorecer alguns dos fabricantes presentes no mercado em detrimento de outros, não são desenhadas soluções que imponham uma determinada marca comercial mas, sempre que tal se afigure como uma prática corrente, serão apresentadas soluções tecnológicas concretas que atualmente o mercado global adota como standard.”

Attaway, S. (2017). *Matlab: A practical introduction to programming and problem solving* (4th Ed.). Amsterdam: Elsevier



“This classic textbook teaches basic programming concepts side by side with MATLAB’s built-in functions, giving the reader a deep understanding of how MATLAB can be efficiently used to solve engineering and scientific problems. The systematic step-by-step approach featured in this book is ideally suited for students who have limited or no programming experience. With a new chapter on object Oriented Programming and coverage of the new App Designer and Live Editor, this new edition is an even more powerful resource for learning programming and problem solving.”



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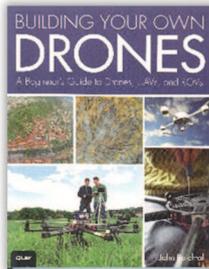


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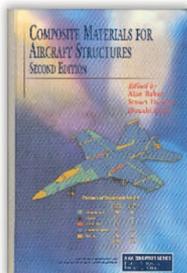
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Baichtal, J. (2016). *Building your own Drones: A Beginner's Guide to Drones, UAVs, and ROVs*. Indianapolis: Que



“This book consists of a main project, a quadcopter you’ll build over the various chapter. The alternating chapters describe a variety of projects such as a data-gathering rocket, drone, a blimp, and a boat made out of soda bottles, giving you a perspective on drones beyond those quadcopters that have everyone abuzz.”

A. Baker, S. Dutton & D. Kelly (Eds.). (2004). *Composite materials for aircraft structures* (2nd Ed.). Reston, VA: American Institute of Aeronautics and Astronautics



“The text discusses important differences in the technology of composites from that of metals--intrinsic substantive differences and their implications for manufacturing processes, structural design procedures, and in-service performance of the materials, particularly regarding the cause and nature of damage that may be sustained.”

R. Black (Ed. Lit.). (2017). *Agile testing foundations: An ISTQB foundation level agile tester guide*. Swindon: BCS, The Chartered Institute for IT



“This book is for all Agile testers. This includes, traditional testers who have made the move to Agile projects and whose roles are almost exclusively involved with testing. However, it also includes developers on Agile projects, who must unit test their own code using techniques such as test-driven development. It includes software development engineers in test (SDETs), who are focused on testing, but play a very technical role within Agile teams as well. It includes product owners and other business stakeholders, who participate in the definition of acceptance criteria and the transformation of those acceptance criteria into acceptance test-driven development and behavior-driven development tests.”



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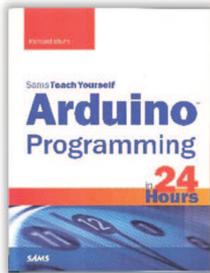


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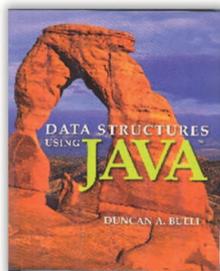
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Blum, R. (2015). *Sams teach yourself arduino programming in 24 hours*. Indianapolis: SAMS



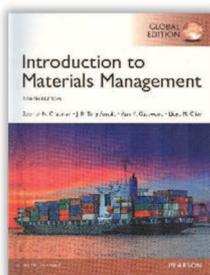
“In just 24 sessions of one hour or less, Sams Teach Yourself Arduino Programming in 24 Hours teaches you C programming on Arduino, so you can start creating inspired “DIY” hardware projects of your own! Using this book’s straightforward, step-by-step approach, you’ll walk through everything from setting up your programming environment to mastering C syntax and features, interfacing your Arduino to performing full-fledged prototyping. Every hands-on lesson and example builds on what you’ve already learned giving you a rock-solid foundation for real-world success!”

Buell, D. A. (2013). *Data Structures using java*. Burlington: Jones & Bartlett



“Designed to correlate with the curricular guidelines of the ACM/IEEE Computer science Curriculum 2008, *Data Structures using Java* introduces students to the more advanced concepts of writing programs but is still accessible to non-computer science majors. Believing that learning how to design and write programs requires hands-on application of concepts, the author includes labs throughout the text for students to immediately apply and test the newly learned material.”

Chapman, S. N., Arnold, J. R. T., Gatewood, A. K. & Clive, L. M. (2017). *Introduction to materials management* (8th Ed.). Boston: Pearson education



“Introduction to Materials Management covers all the basics of supply chain management, manufacturing planning and control systems, purchasing, physical distribution, lean and quality management. The material, examples, questions, and problems lead the student logically through the text. The writing style is simple and user-friendly---both instructors and students who have used the book attest to this.”



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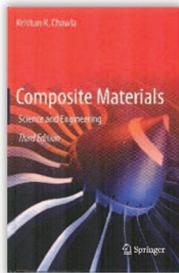


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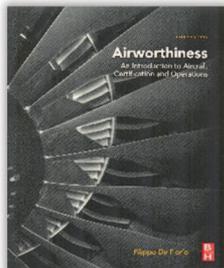
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Chawla, K. K. (2012). *Composite materials: Science and engineering* (3rd Ed.). New York: Springer



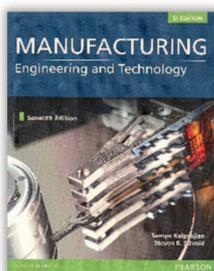
“In the edition of Composite Materials, revised and updated throughout, increasing use of composites in industry (especially aerospace and energy) and new development in the field are highlighted. There is a new chapter on non-conventional composites, which covers polymer metal and ceramic matrix nanocomposites self-healing composites, self-reinforced composites biocomposites and laminates made of metals and polymer matrix composites.”

De Florio, F. (2016). *Airworthiness: An Introduction to Aircraft Certification and Operations* (3rd Ed.). Amsterdam: Elsevier



“Technology and regulations have evolved so fast and in so many ways that it has been necessary to revisit the entire content of the previous edition. It was also necessary to expand this content in consideration of the growing application of unmanned systems, autonomous flight, sport flight, and space technology. Aviation regulations are in fact a continuously evolving domain, they will evolve and will keep changing. However, the philosophies behind airworthiness regulations and their very nature have not substantially changed: airworthiness, ultimately, is about safety. The safety of people, the environment, the economy.”

Kalpakjian, S. & Schmid, S. R. (2014). *Manufacturing engineering and technology* (7th Ed.). Singapore: Pearson



“This book continues to address the various challenges and issues in modern manufacturing processes and operations, ranging from traditional topics such as casting, forming, machining, and joining processes, to advanced topics such as the fabrication of microelectronic devices and microelectromechanical systems and nanomanufacturing. The book provides numerous examples and case studies, as well as comprehensive and up-to-date coverage of all topics relevant to modern manufacturing, as a solid background for students as well as for professionals.”



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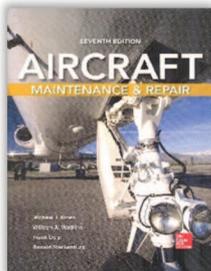
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Krishna, G. (2015). *The best interface is no interface: The simple path to brilliant technology*. [S. l.] : New Riders



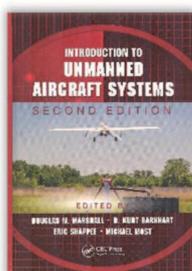
“In this book, innovator Golden Krishna challenges our world of nagging, screen-based bondage, and shows how we can build a technologically advanced world without digital interfaces.”

Kroes, M. J. [et al.] . (2013). *Aircraft maintenance and repair* (7th Ed.). New York: McGraw-Hill



“Aircraft maintenance and Repair is designed to provide aviation students with the theoretical and practical knowledge required to quality for certification as FAA airframe technicians in accordance with Federal Aviation Regulations (FARs). This text covers the subjects categorized in the FARs under Airframe Structures and Airframe Systems and Components and may be used as a study text in connecting with classroom discussions, demonstrations, and practical application in the shop and on aircraft.”

Marshall, D. M. (ed.) (2016) *Introduction to unmanned aircraft systems* (2nd Ed.). Boca Raton, F: CRC Press



“Introduction to Unmanned Aircraft Systems surveys the fundamentals of unmanned aircraft system (UAS) operations, from sensors, control. And automation to regulations, safety procedures, and human factors.”



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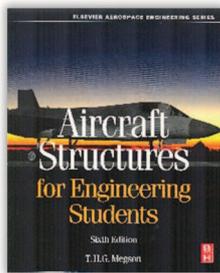


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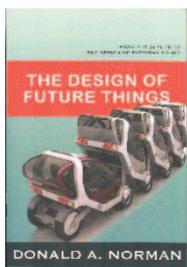
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Megson, T. H. G. (2017). *Aircraft structures for engineering students*. (6th Ed.).
Amsterdam: Elsevier



“Aircraft Structures for Engineering Students is the learning self-contained aircraft structures course text. In addition to covering all fundamental subjects, including elasticity, structural analysis, airworthiness, and aeroelasticity, this new sixth edition now features expanded coverage of the analysis and design of composite materials for use in aircraft, along with new real-world and design-based examples and new end-of-chapter problems of varying complexity.”

Norman, D. A. (2009). *The design of future things*. New York: Basic Books



“The design of Future things, bestselling author Donald a. Norman presents a revealing examination of smart technology, from smooth-talking GPS units to cantankerous refrigerators. Exploring the links between design and psychology, he offers a consumer-oriented theory of natural human-machine interaction that can be put into practice by the engineers and industrial designers of tomorrow`s blinking machines. A fascinating look at the perils and promise of the future. The design of Future Things is a must-read for anyone interested in the dawn of a new era in technology.”



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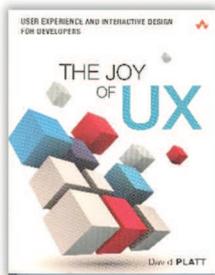
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Pereira, G. M. (2014). *Unicer, uma longa história*. (2 vol.). Porto: Unicer



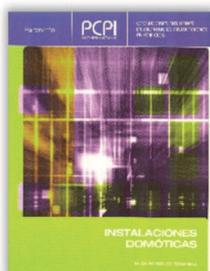
A obra relata a história da Instituição ao longo dos seus 125 anos de existência.

Platt, D. (2016). *The joy of UX : User experience and interactive design for developers*. Boston: Addison-Wesley



“This guide shows you how to: Recognize and avoid pitfalls that lead to poor user experiences; Learn the crucial difference between design and mere decoration; Put yourself in your user’s shoes – understand what they want (and where, when, and why); Quickly sketch and prototype user interfaces for easy refinement; Test your sketches on real users or appropriate surrogates; Integrate telemetry to capture the best possible usage information; User analytics to accurately interpret the data you’ve captured; Solve unique experience problems presented by mobile environments; secure your app without compromising usability any more than necessary; “Polish” your UX to eliminate user effort everywhere you can.”

Rodríguez Fernández, J. (2012). *Instalaciones domóticas*. Madrid: Paraninfo



“Com exemplos práticos e amplamente ilustrado o livro permite a aquisição de conhecimentos básicos, para a realização de montagem e manutenção de instalação domótica em moradias e edifícios.”



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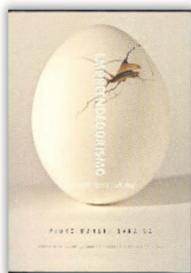


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Saraiva, P. M. (2015). *Empreendedorismo: do conceito à aplicação, da ideia ao negócio, da tecnologia ao valor*. (3ª Ed. rev. e ampliada). Coimbra: Imprensa da Universidade de Coimbra



“Esclarecer o que se entende por empreendedorismo, o que o caracteriza, bem assim como quem o adopta enquanto forma de vida, em que tipologias específicas se pode subdividir ou contextualizar;”

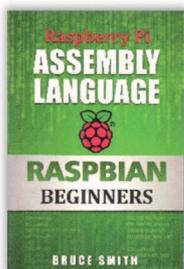
“Evidenciar a sua pertinência objectiva do desenvolvimento, tanto à escala local, como a nível regional, nacional ou mundial, bem como o papel que deve competir às instituições de Ensino Superior neste domínio;”

“Explicitar as diferentes etapas, a acautelar no processo de transformação duma vaga ideia de negócio numa realidade organizacional concreta, por forma a ganhar eficácia nesta conversão, ao mesmo tempo que se majora a respectiva probabilidade de sucesso;”

“Ilustrar as várias fases, que se encontram associadas à afirmação dos projectos de Empreendedorismo de Base Tecnológica, assentes em conhecimento, cada vez mais essenciais, e que pela primeira vez ficam assim retratadas no contexto de livro em língua portuguesa;”

“Identificar os modos de construção e afirmação de bons ecossistemas de inovação e empreendedorismo a diferentes escalas territoriais, incluindo uma agenda de aposta nacional no empreendedorismo.”

Smith, B. (2016). *Raspberry pi assembly language raspbian: Hands on guide*. (3th Ed.). [S. l.]: Alan Ford



“Raspberry Pi Assembly Language RASPBIAN Beginners is your hands-on guide to learning to program ARM machine code on your Raspberry Pi, With nothing other than the Raspberry Operating System installed on your Raspberry Pi, this book shows you how to access all the tools that you’ll need to create your own machine code programs using assembly language.”



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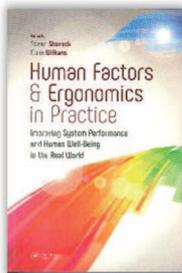


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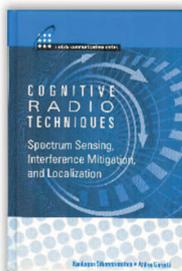
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Shorrock, S. & Williams, C. (Eds.) (2017). *Human factors e ergonomics in practice: Improving system performance and human well-being in the real world*. Boca Raton, FL: CRC Press



“This edited book discusses the real practice of human and ergonomics (HF/E), conveying the perspectives and experiences of practitioners and other stakeholders in a variety of industrial sectors, organizational settings, and working contexts. The book blends literature on the nature of practice with diverse and eclectic reflections from experience in a range of context, from healthcare to agriculture.”

Sithamparanathan, K. & Giorgetti, A. (2012). *Cognitive radio techniques: spectrum sensing, interference mitigation, and localization*. Boston: Artech House



“...In this regard, the entire book is grouped into three major parts covering:
Part I – Spectrum Sensing in Cognitive Radios;
Part II – Coexistence and Interference Mitigation Techniques;
Part III – Localizations and Radio Environment Mapping”

Spillner, A., Linz, T. & Schaefer, H. (2014). *Software testing foundations: A study guide for the certified tester exam*. (4th Ed.). Santa Barbara, CA: Rockynook



“Professional testing of software is an essential task that requires a profound knowledge of testing techniques. The International Software Testing Qualifications Board (ISTQB) has developed a universally accepted, international qualification scheme aimed at software and system testing professionals, and has created the Syllabi and Tests for the Certified Tester. Today about 300,000 people have taken the ISTQB certification exams.”



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TRABALHOS DE ALUNOS

Pinto, J. M. R. R. (2017). *Controlador de Motor BLDC para Sistema de Tração com Aproveitamento Regenerativo de Energia*. Castelo Branco: Instituto Politécnico, Escola Superior de Tecnologia. (Dissertação de Licenciatura em Engenharia Electrotécnica e das Telecomunicações, Instituto Politécnico, Escola Superior de Tecnologia, Castelo Branco). Castelo Branco: IPCB. ESTCB



“Este relatório de projeto descreve a realização de um protótipo para um controlador de motores sem escovas com aproveitamento de energia regenerativa, vulgarmente conhecidos como Brushless Motors. A motivação para este projeto teve origem no desenvolvimento de dois veículos elétricos com recurso a energia solar, ambos utilizados em competições desportivas pela equipa IPCB Solar Racing Team.”