

Ultrasonic Distance Sensor Hy Srf05 Detection Distance

Interconnecting Smart Objects with IP: The Next Internet explains why the Internet Protocol (IP) has become the protocol of choice for smart object networks. IP has successfully demonstrated the ability to interconnect billions of digital systems on the global Internet and in private IP networks. Once smart objects can be easily interconnected, a whole new class of smart object systems can begin to evolve. The book discusses how IP-based smart object networks are being designed and deployed. The book is organized into three parts. Part 1 demonstrates why the IP architecture is well suited to smart object networks, in contrast to non-IP based sensor network or other proprietary systems that interconnect to IP networks (e.g. the public Internet of private IP networks) via hard-to-manage and expensive multi-protocol translation gateways that scale poorly. Part 2 examines protocols and algorithms, including smart objects and the low power link layers technologies used in these networks. Part 3 describes the following smart object network applications: smart grid, industrial automation, smart cities and urban networks, home automation, building automation, structural health monitoring, and container tracking. Shows in detail how connecting smart objects impacts our lives with practical implementation examples and case studies Provides an in depth understanding of the technological and architectural aspects underlying smart objects technology Offers an in-depth examination of relevant IP protocols to build large scale smart object networks in support of a myriad of new services

In Beginning Arduino, you will learn all about the popular Arduino microcontroller by working your way through an

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amazing set of 50 cool projects. You'll progress from a complete beginner regarding Arduino programming and electronics knowledge to intermediate skills and the confidence to create your own amazing Arduino projects. Absolutely no experience in programming or electronics required! Rather than requiring you to wade through pages of theory before you start making things, this book has a hands-on approach. You will dive into making projects right from the start, learning how to use various electronic components and how to program the Arduino to control or communicate with those components. Each project is designed to build upon the knowledge learned in earlier projects and to further your knowledge in programming as well as skills with electronics. By the end of the book you will be able create your own projects confidently and with creativity. Please note: the print version of this title is black & white; the eBook is full color. You can download the color diagrams in the book from <http://www.apress.com/9781430232407>

This edition has been completely revised. The authors, noted authorities in the field, focus on ways to improve R&D organization productivity and foster excellence in such companies. They describe how to design jobs, organize hierarchies, resolve conflicts, motivate employees, and create an innovative work environment. Features extensive cross-cultural coverage of European and Pacific Rim R&D organizations and policies which greatly differ from the US. Includes an entirely new section on various strategic planning elements unique to an R&D organization along with a case study.

For many years, various editions of Smallman's Modern Physical Metallurgy have served throughout the world as a standard undergraduate textbook on metals and alloys. In 1995, it was rewritten and enlarged to encompass the related subject of materials science and engineering and appeared

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under the title *Metals & Materials: Science, Processes, Applications* offering a comprehensive amount of a much wider range of engineering materials. Coverage ranged from pure elements to superalloys, from glasses to engineering ceramics, and from everyday plastics to in situ composites, Amongst other favourable reviews, Professor Bhadeshia of Cambridge University commented: "Given the amount of work that has obviously gone into this book and its extensive comments, it is very attractively priced. It is an excellent book to be recommend strongly for purchase by undergraduates in materials-related subjects, who should benefit greatly by owning a text containing so much knowledge." The book now includes new chapters on materials for sports equipment (golf, tennis, bicycles, skiing, etc.) and biomaterials (replacement joints, heart valves, tissue repair, etc.) - two of the most exciting and rewarding areas in current materials research and development. As in its predecessor, numerous examples are given of the ways in which knowledge of the relation between fine structure and properties has made it possible to optimise the service behaviour of traditional engineering materials and to develop completely new and exciting classes of materials. Special consideration is given to the crucial processing stage that enables materials to be produced as marketable commodities. Whilst attempting to produce a useful and relatively concise survey of key materials and their interrelationships, the authors have tried to make the subject accessible to a wide range of readers, to provide insights into specialised methods of examination and to convey the excitement of the atmosphere in which new materials are conceived and developed.

Calculus with Applications, Tenth Edition (also available in a Brief Version containing Chapters 1-9) by Lial, Greenwell, and Ritchey, is our most applied text to date, making the math relevant and accessible for students of business, life science,

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and social sciences. Current applications, many using real data, are incorporated in numerous forms throughout the book, preparing students for success in their professional careers. With this edition, students will find new ways to get involved with the material, such as Your Turn exercises and Apply It vignettes that encourage active participation. The MyMathLab(r) course for the text provides additional learning resources for students, such as video tutorials, algebra help, step-by-step examples, and graphing calculator help. The course also features many more assignable exercises than the previous edition.

The volume LNAI 12228 constitute the refereed proceedings of the 21th Annual Conference "Towards Autonomous Robotics," TAROS 20120, held in Nottingham, UK, in September 2020.* The 30 full papers and 11 short papers presented were carefully reviewed and selected from 63 submissions. The papers present and discuss significant findings and advances in autonomous robotics research and applications. They are organized in the following topical sections: soft and compliant robots; mobile robots; learning, mapping and planning; human-robot interaction; and robotic systems and applications. * The conference was held virtually due to the COVID-19 pandemic.

Learn digital image editing without the expense of using subscription-based editors. This book will pave the way for you to leverage Pixlr Editor, a free, web-based image editing solution that works on virtually any computer platform. You'll learn image editing first hand by using the practice images with the corresponding tutorials—everything from creating simple graphics to enhancing and retouching photos. Explore all of the features you'd expect in a high end photo editing application; layers, history (multiple undos), and an array of powerful tools for handling almost any editing task. Powerful image editing used to require purchasing and installing

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expensive, complicated image editing software on your computer. Beginning Pixlr Editor takes an easy-to-access and convenient look at the alternative from the Pixlr family of tools and utilities and offers you advanced editing techniques so you can enhance, retouch, and edit your digital images like a pro. What You'll Learn: Easily access Pixlr Editor from any computer with a high speed Internet connection Create a new image, or open an image from your computer, a URL, or the Pixlr library Save your images on to your computer or the Pixlr library Navigate the the Pixlr interface Use the Tools, Layers, image Adjustments, History, and much more Who This Book Is For: Beginner and those with some image editing experience (anyone accustomed to Adobe Photoshop will instantly feel at home with Pixlr Editor).

This book presents applications on the ultrasonic wave for material characterization and nondestructive evaluations. It could be of interest to the researchers and students who are studying on the fields of ultrasonic waves.

Data uncertainty is a concept closely related with most real life applications that involve data collection and interpretation. Examples can be found in data acquired with biomedical instruments or other experimental techniques. Integration of robust optimization in the existing data mining techniques aim to create new algorithms resilient to error and noise. This work encapsulates all the latest applications of robust optimization in data mining. This brief contains an overview of the rapidly growing field of robust data mining research field and presents the most well known machine learning algorithms, their robust counterpart formulations and

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algorithms for attacking these problems. This brief will appeal to theoreticians and data miners working in this field.

This book contains selected peer-reviewed papers presented in the International Conference Down To Earth 2019, and is focused on Water Security and Sustainability. The topics covered in this book include sustainability of water resources, geospatial modelling and hydro-informatics, extreme hydrology (drought and flood), adaptation to climate-change impacts, vulnerability-risk-reliability-resilience, and hydrological risks in north-east India. The book also discusses innovative techniques and technologies for water resources assessment and management. Enriched with numerous case studies covering diverse topics, the book can be valuable for students, researchers, as well as industry professionals interested in water resources assessment, management and sustainable development.

In *Learn Robotics with Raspberry Pi*, you'll learn how to build and code your own robot projects with just the Raspberry Pi microcomputer and a few easy-to-get components - no prior experience necessary! *Learn Robotics with Raspberry Pi* will take you from inexperienced maker to robot builder. You'll start off building a two-wheeled robot powered by a Raspberry Pi minicomputer and then program it using Python, the world's most popular programming

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language. Gradually, you'll improve your robot by adding increasingly advanced functionality until it can follow lines, avoid obstacles, and even recognize objects of a certain size and color using computer vision. Learn how to: - Control your robot remotely using only a Wii remote - Teach your robot to use sensors to avoid obstacles - Program your robot to follow a line autonomously - Customize your robot with LEDs and speakers to make it light up and play sounds - See what your robot sees with a Pi Camera As you work through the book, you'll learn fundamental electronics skills like how to wire up parts, use resistors and regulators, and determine how much power your robot needs. By the end, you'll have learned the basics of coding in Python and know enough about working with hardware like LEDs, motors, and sensors to expand your creations beyond simple robots.

This book provides an update on recent advances in various areas of modern engineering design, such as mechanical, materials, computer, and process engineering, which provide the foundation for the development of improved structures, materials, and processes. The modern design cycle is characterized by the interaction of different disciplines and a strong shift toward computer-based approaches involving only a small number of experiments for verification purposes. A major driver for this development is the increased demand for

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cost reduction, which is also connected to environmental demands. In the transportation industry (e.g. automotive or aerospace), where there is a demand for greater fuel efficiency, one solution is lighter structures and/or improved processes for energy conversion. Another emerging area is the interaction of classical engineering with the health and medical sector.

Beginning Arduino Programming allows you to quickly and intuitively develop your programming skills through sketching in code. This clear introduction provides you with an understanding of the basic framework for developing Arduino code, including the structure, syntax, functions, and libraries needed to create future projects. You will also learn how to program your Arduino interface board to sense the physical world, to control light, movement, and sound, and to create objects with interesting behavior. With Beginning Arduino Programming, you'll get the knowledge you need to master the fundamental aspects of writing code on the Arduino platform, even if you have never before written code. It will have you ready to take the next step: to explore new project ideas, new kinds of hardware, contribute back to the open source community, and even take on more programming languages.

Communications, Signal Processing, and Systems is a collection of contributions coming out of the

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International Conference on Communications, Signal Processing, and Systems (CSPS) held August 2012. This book provides the state-of-art developments of Communications, Signal Processing, and Systems, and their interactions in multidisciplinary fields, such as audio and acoustic signal processing. The book also examines Radar Systems, Chaos Systems, Visual Signal Processing and Communications and VLSI Systems and Applications. Written by experts and students in the fields of Communications, Signal Processing, and Systems.

This book presents a compilation of selected papers from the 2nd International Conference on Healthcare Science and Engineering (Healthcare 2018). The work focuses on novel computing, networking, and data analytics techniques for various issues in healthcare. The book is a valuable resource for academic researchers and practitioners working in the field.

Through a series of poems, a young girl chronicles the life-changing year of 1975, when she, her mother, and her brothers leave Vietnam and resettle in Alabama.

A century ago, fewer than 20 cities around the world had populations in excess of 1 million people that number has swelled up to 450 and will continue to grow in the future. In today's world increasing population density changes the need of the human beings. The need for controlling the devices has made people in developing new technologies like IoT. In the era of evolution of technologies, bringing smartness in home

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is center of attractions for researchers. IoT (Internet of Things) is a new paradigm towards research. In this the enabling technologies of IoT that are connected through wired and wireless is used in smart city and their applications that, changes the life style and the infrastructure of people. Due to the advent of Internet of Things, it is used in many applications like smart city, smart home, retail, smart agriculture, waste management etc. Waste management system includes industry, many types of waste like solid waste, construction waste, industrial waste, agriculture waste, household waste. Household Waste is one of the difficult thing to manage in all over the world. Till now, many approaches were proposed by researchers to provide the solutions for managing and disposal of household waste. To overcome the problem of disposing and managing recyclable household waste for smart home, a Weight based Billing System is proposed, in this a framework is designed that will help to clean the environment. The performance of proposed method is measured by checking the weight of Recyclable Household Waste like plastic, paper, metal, batteries, cloth, glass, etc. using Weight based Billing System algorithm for smart home.

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sold-out crowd of novice players

The Proceedings of The Second International Conference on Communications, Signal Processing, and Systems provides the state-of-art developments of Communications, Signal Processing, and Systems. The conference covered such topics as wireless communications, networks, systems, signal processing for communications. This book is a collection of contributions coming out of The Second International Conference on Communications, Signal Processing, and Systems (CSPS) held September 2013 in Tianjin, China. Over the past decade, there has been an increase in attention and focus on the discipline of software engineering. Software engineering tools and techniques have been developed to gain more predictable quality improvement results. Process standards such as Capability Maturity Model Integration (CMMI), ISO 9000, Software Process Improvement and Capability dEtermination (SPICE), Agile Methodologies, and others have been proposed to assist organizations to achieve more predictable results by incorporating these proven standards and procedures into their software process. Software Process Improvement and Management: Approaches and Tools for Practical Development offers the latest research and case studies on software engineering and development. The production of new process standards assist organizations and software engineers in adding a measure of predictability to the software process. Companies can gain a decisive competitive advantage by applying these new and theoretical methodologies in real-world scenarios. Researchers, scholars, practitioners, students, and anyone interested in the field of software development and design should access this book as a major compendium of the latest research in the field.

Provides therapists with the background knowledge that they

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require before they can safely and accurately treat patients with musculoskeletal disorders of the spine. It should be invaluable to all those practitioners who regularly treat spinal dysfunction.

This updated Second Edition covers current state-of-the-art technology and instrumentation. The Second Edition of this well-respected publication provides updated coverage of basic nondestructive testing (NDT) principles for currently recognized NDT methods. The book provides information to help students and NDT personnel qualify for Levels I, II, and III certification in the NDT methods of their choice. It is organized in accordance with the American Society for Nondestructive Testing (ASNT) Recommended Practice No. SNT-TC-1A (2001 Edition). Following the author's logical organization and clear presentation, readers learn both the basic principles and applications for the latest techniques as they apply to a wide range of disciplines that employ NDT, including space shuttle engineering, digital technology, and process control systems. All chapters have been updated and expanded to reflect the development of more advanced NDT instruments and systems with improved monitors, sensors, and software analysis for instant viewing and real-time imaging. Keeping pace with the latest developments and innovations in the field, five new chapters have been added: * Vibration Analysis * Laser Testing Methods * Thermal/Infrared Testing * Holography and Shearography * Overview of Recommended Practice No. SNT-TC-1A, 2001. Each chapter covers recommended practice topics such as basic principles or theory of operation, method advantages and disadvantages, instrument description and use, brief operating and calibrating procedures, and typical examples of flaw detection and interpretation, where applicable. This book gathers selected papers presented at the conference "Advances in 3D Image and Graphics

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Representation, Analysis, Computing and Information Technology,” one of the first initiatives devoted to the problems of 3D imaging in all contemporary scientific and application areas. The aim of the conference was to establish a platform for experts to combine their efforts and share their ideas in the related areas in order to promote and accelerate future development. This second volume discusses algorithms and applications, focusing mainly on the following topics: 3D printing technologies; naked, dynamic and auxiliary 3D displays; VR/AR/MR devices; VR camera technologies; microprocessors for 3D data processing; advanced 3D computing systems; 3D data-storage technologies; 3D data networks and technologies; 3D data intelligent processing; 3D data cryptography and security; 3D visual quality estimation and measurement; and 3D decision support and information systems.

This book describes the fundamentals and applications of wireless power transfer (WPT) in electric vehicles (EVs). Wireless power transfer (WPT) is a technology that allows devices to be powered without having to be connected to the electrical grid by a cable. Electric vehicles can greatly benefit from WPT, as it does away with the need for users to manually recharge the vehicles’ batteries, leading to safer charging operations. Some wireless chargers are available already, and research is underway to develop even more efficient and practical chargers for EVs. This book brings readers up to date on the state-of-the-art worldwide. In particular, it provides:

- The fundamental principles of WPT for the wireless charging of electric vehicles (car, bicycles and drones), including compensation topologies, bi-directionality and coil topologies.
- Information on international standards for EV wireless charging.
- Design procedures for EV wireless chargers, including software files to help readers test their own designs.
- Guidelines on the components and

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materials for EV wireless chargers. • Review and analysis of the main control algorithms applied to EV wireless chargers. • Review and analysis of commercial EV wireless charger products coming to the market and the main research projects on this topic being carried out worldwide. The book provides essential practical guidance on how to design wireless chargers for electric vehicles, and supplies MATLAB files that demonstrate the complexities of WPT technology, and which can help readers design their own chargers.

A comprehensive review of the current state of research and use of task analysis for Human-Computer Interaction (HCI), this multi-authored and diligently edited handbook offers the best reference source available on this diverse subject whose foundations date to the turn of the last century. Each chapter begins with an abstract and is cross-referenced and indexed to other chapters. Divided into five parts--each prefaced with a rationale and brief summary of its chapters--this volume presents contemporary thinking about task analysis together with a representative set of methods. Part I opens with seven chapters that form a book-within-a-book and introduce most of the main concepts, methods, and techniques discussed in more detail in later parts. Part II describes the use of task analysis in commercial IT projects and recognizes some of the important constraints on its use. Part III primarily concentrates on human issues--most relying on some particular psychological or ergonomic model. Part IV presents task analysis methods targeted at

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software engineering development. These methods, particularly where supported by CASE tools, are therefore practical for use in commercial projects. Lastly, Part V focuses on outstanding issues associated with task analysis, highlighting the main problems with it and analyzing how these might be resolved in due course. Academic researchers, post-graduate students and final year undergraduates, as well as practicing HCI professionals and hardcore task analysts, including industrialists, psychologists, and computer scientists all benefit from this Handbook.

This book constitutes the presentations made at the Advanced Research Workshop on Autonomous Robotic Systems, which was held at the University of Coimbra, Portugal, June 1997. The aim of the meeting was to bring together leading researchers in the area of autonomous systems for mobility and manipulation, and the aim of this book is to share the presentations with the reader. The book presents the most recent developments in the field. Topics include sensors and navigation in mobile robots, robot co-operation, telerobotics, legged robots, climbing robots and applications. Existing and emerging applications of autonomous systems are described in great detail, including applications in forestry, cleaning, mining, tertiary buildings, assistance to the elderly and handicapped, and surgery. The chapters are written in a structured and

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advanced tutorial style by leading specialists from Europe, Australia, Japan and USA. The style will allow the reader to grasp the state-of-the-art and research directions in the area of autonomous systems.

Provides information on creating a variety of gadgets and controllers using Arduino.

Rapid advances in IoT technology demand a lot of devices to be connected to the internet. To design such devices, we usually need knowledges about microcontrollers and computer network. As an example, we often found devices that can be connected to the network and can be configured via web interfaces. These devices implement embedded web server. For example, most of network devices usually use embedded web server as the interface for configuration. Although there are a lot of books that discuss about microcontrollers or web development, they usually discuss the topics in separate books. Rarely, there is a book that discusses both of the topics in one book, i.e. the book that discusses how to create a web interface for a microcontroller. Therefore, this book is written to fill that gap. The Arduino library is used to program the ESP32, while HTML, CSS, and JavaScript are used to build the web interface. Hands-On IoT: Wi-Fi and Embedded Web Development Developing with ESP32, Arduino, C/C++, HTML, CSS, and JavaScript by

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ExamplesErwin Ouyang

This book constitutes the thoroughly refereed post-workshop proceedings of the 5th International Workshop on Modelling and Simulation for Autonomous Systems, MESAS 2018, held in Prague, Czech Republic, in October 2018. The 46 revised full papers included in the volume were carefully reviewed and selected from 66 submissions. They are organized in the following topical sections: Future Challenges of Advanced M&S Technology; Swarming - R&D and Application; M&S of Intelligent Systems - AI, R&D and Application; AxS in Context of Future Warfare and Security Environment (Concepts, Applications, Training, Interoperability, etc.).

Design and Operation of Locomotion Systems examines recent advances in locomotion systems with multidisciplinary viewpoints, including mechanical design, biomechanics, control and computer science. In particular, the book addresses the specifications and requirements needed to achieve the proper design of locomotion systems. The book provides insights on the gait analysis of humans by considering image capture systems. It also studies human locomotion from a rehabilitation viewpoint and outlines the design and operation of exoskeletons, both for rehabilitation and human performance enhancement tasks. Additionally, the book content ranges from fundamental theory and

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mathematical formulations, to practical implementations and experimental testing procedures. Written and contributed by leading experts in robotics and locomotion systems

Addresses humanoid locomotion from both design and control viewpoints

Discusses the design and control of multi-legged locomotion systems

In the last 20 years I have been personally involved with PROFIBUS: teaching it at the University, working on projects and leading workshops for industry. During this time, various descriptions and guides to different aspects of PROFIBUS were developed. I was helped in this by the contacts I had with industry and a range of experts in my capacity as chairman of PROFIBUS Switzerland and head of the PROFIBUS Competence Centre (PICC) at the Bern University of Applied Sciences. I have now brought these documents together in the form of a manual. Its purpose is to simplify entry to the world of PROFIBUS for a wider public. Now I generated an electronic book version with active links for the usage on iPad or Android tablet computers.

MARK MILLAR & GREG CAPULLO join forces to create the smash hit sci-fi / fantasy story of the year: REBORN. Where do you go when you die? Not heaven or hell; somewhere else. Somewhere you have to fight to survive. Somewhere the people from the past are waiting for you the good and the bad. This book provides an insight into recent

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technological trends and innovations in mobility solutions and platforms to improve mobility of visually impaired people. The authors' goal is to help to contribute to the social and societal inclusion of the visually impaired. The book's topics include, but are not limited to, obstacle detection systems, indoor and outdoor navigation, transportation sustainability systems, and hardware/devices to aid visually impaired people. The book has a strong focus on practical applications, tested in a real environment. Applications include city halls, municipalities, and companies that can keep up to date with recent trends in platforms, methodologies and technologies to promote urban mobility. Also discussed are broader realms including education, health, electronics, tourism, and transportation. Contributors include a variety of researchers and practitioners around the world. Features practical, tested applications of technological mobility solutions for visual impaired people; Presents topics such as obstacle detection systems, urban mobility, smart home services, and ambient assisted living; Includes a number of application examples in education, health, electronics, tourism, and transportation. When a person picks up a metal part and clamps it in the chuck of a lathe, he begins with his arm, proceeds with his wrist and finishes with his fingers. The arm brings the part near the chuck. The wrist positions the part, giving it the proper orientation to

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slide in. After the part is inserted, the wrist and fingers make tiny corrections to ensure that it is correctly seated. Today's robot attempting the same operations is at a grave disadvantage if it has to make all motions with the arm. The following work investigates the use of robotic wrists and hands to help industrial robots perform the fine motions needed in a metal working cell. Chapters 1 and 2 are an introduction to the field and a review of previous investigations on related subjects. Little work has been done on grasping and fine manipulation with a robot hand or wrist, but the related subjects of robot arm dynamics and control have an extensive literature.

This volume gives an overview on recent developments for various applications of modern engineering design. Different engineering disciplines such as mechanical, materials, computer and process engineering provide the foundation for the design and development of improved structures, materials and processes. The modern design cycle is characterized by an interaction of different disciplines and a strong shift to computer-based approaches where only a few experiments are performed for verification purposes. A major driver for this development is the increased demand for cost reduction, which is also connected to environmental demands. In the transportation industry (e.g. automotive or aerospace), this is

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connected with the demand for higher fuel efficiency, which is related to the operational costs and the lower harm for the environment. One way to fulfil such requirements are lighter structures and/or improved processes for energy conversion. Another emerging area is the interaction of classical engineering with the health and medical sector. In this book, many examples of the mentioned design applications are presented.

This book gathers a selection of papers presented at ROBOT 2019 – the Fourth Iberian Robotics Conference, held in Porto, Portugal, on November 20th–22nd, 2019. ROBOT 2019 is part of a series of conferences jointly organized by the SPR – Sociedade Portuguesa de Robótica (Portuguese Society for Robotics) and SEIDROB – Sociedad Española para la Investigación y Desarrollo en Robótica (Spanish Society for Research and Development in Robotics). ROBOT 2019 built upon several previous successful events, including three biannual workshops and the three previous installments of the Iberian Robotics Conference, and chiefly focused on presenting the latest findings and applications in robotics from the Iberian Peninsula, although the event was also open to research and researchers from other countries. The event featured five plenary talks on state-of-the-art topics and 16 special sessions, plus a main/general robotics track. In total, after a stringent review process, 112 high-

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quality papers written by authors from 24 countries
were selected for publication.

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