

Just Hibernate A Lightweight Introduction To The Hibernate Framework

[Just Hibernate](#) [Just Spring](#) [Just Spring Integration](#) [Lightweight Composite Structures in Transport](#) [Light Weight Materials Structural Mechanics in Lightweight Engineering](#) [Lightweight Django](#) [Handbook of Optomechanical Engineering](#) [Sustainable Composites for Lightweight Applications](#) [That Book on Blockchain: A One-Hour Intro](#) [Embedded and Ubiquitous Computing](#) [Conceptual Modeling: Foundations and Applications](#) [Textile Materials for Lightweight Constructions](#) [Lightweight Aggregate Concrete](#) [Recent Advances in Materials, Mechanics and Management](#) [Organic Computing – A Paradigm Shift for Complex Systems](#) [Intelligent Robotics and Applications](#) [Coordination Models and Languages](#) [Product Focused Software Process Improvement](#) [Proceedings of 2021 Chinese Intelligent Systems Conference](#) [Computer Vision – ECCV 2020 Workshops](#) [Lightweight Materials](#) [Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2015](#) [Agile Processes in Software Engineering and Extreme Programming](#) [Knowledge Science, Engineering and Management](#) [Materials, Design and Manufacturing for Lightweight Vehicles](#) [Advanced Lightweight Multifunctional Materials](#) [Harmony Search and Nature Inspired Optimization Algorithms](#) [Lightweight Ballistic Composites](#) [Cyber-Physical Systems Security](#) [Information Systems Security](#) [Stabilization, Safety, and Security of Distributed Systems](#) [Information Science and Applications](#) [Combinatorial Pattern Matching](#) [VBScript](#) [ROBOT 2017: Third Iberian Robotics Conference](#) [America's Textile Reporter](#) [Department of the Interior and Related Agencies Appropriations for 1996](#) [Introduction to Dynamics and Control of Flexible Structures](#) [Information Security Theory and Practice. Security, Privacy and Trust in Computing Systems and Ambient Intelligent Ecosystems](#)

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Combinatorial Pattern Matching Jan 01 2020 The refereed proceedings of the 14th Annual Symposium on Combinatorial Pattern Matching, CPM 2003, held in Morelia, Michoacán, Mexico in June 2003. The 28 revised full papers presented were carefully reviewed and selected from 57 submissions. The papers are devoted to current theoretical and computational aspects of searching and matching strings and more complicated patterns, such as trees, regular expressions, graphs, point sets, and arrays. Among the application fields addressed are computational biology, bioinformatics, genomics, the Web, data compression, coding, multimedia, information retrieval, pattern recognition, and computer vision.

Embedded and Ubiquitous Computing Dec 24 2021 This book constitutes the refereed proceedings of the International Conference on Embedded and Ubiquitous Computing, EUC 2007, held in Taipei, Taiwan, in December 2007. The 65 revised full papers presented were carefully reviewed and selected from 217 submissions. The papers are organized in topical sections. They include sections on power aware computing, reconfigurable embedded systems, wireless networks, real-time/embedded operating systems, and embedded system architectures.

Proceedings of 2021 Chinese Intelligent Systems Conference Mar 15 2021 This book presents the proceedings of the 17th Chinese Intelligent Systems Conference, held in Fuzhou, China, on Oct 16-17, 2021. It focuses on new theoretical results and techniques in the field of intelligent systems and control. This is achieved by providing in-depth study on a number of major topics such as Multi-Agent Systems, Complex Networks, Intelligent Robots, Complex System Theory and Swarm Behavior, Event-Triggered Control and Data-Driven Control, Robust and Adaptive Control, Big Data and Brain Science, Process Control, Intelligent

Sensor and Detection Technology, Deep learning and Learning Control Guidance, Navigation and Control of Flight Vehicles and so on. The book is particularly suited for readers who are interested in learning intelligent system and control and artificial intelligence. The book can benefit researchers, engineers, and graduate students.

Product Focused Software Process Improvement Apr 15 2021 The Third International Conference on Product Focused Software Process Improvement (PROFES 2001) continued the success of the PROFES'99 and PROFES 2000 conferences. PROFES 2001 was organized in Kaiserslautern, Germany, September 10-13, 2001. The PROFES conference has its roots in the PROFES Esprit project (<http://www.ele.vtt.fi/profes/>), but it quickly evolved into a full fledged general purpose conference in 1999 and since then it has gained wide spread international popularity. As in previous years, the main theme of PROFES 2001 was professional software process improvement (SPI) motivated by product and service quality needs. SPI is facilitated by software process assessment, software measurement, process modeling, and technology transfer and has become a practical tool for quality software engineering and management. The conference addresses both the solutions found in practice as well as relevant research results from academia. The purpose of the conference is to bring to light the most recent findings and results in the area and to stimulate discussion between the researchers, experienced professionals, and technology providers for SPI.

Cyber-Physical Systems Security May 05 2020 The chapters in this book present the work of researchers, scientists, engineers, and teachers engaged with developing unified foundations, principles, and technologies for cyber-physical security. They adopt a multidisciplinary approach to solving related problems in next-generation systems, representing views from

academia, government bodies, and industrial partners, and their contributions discuss current work on modeling, analyzing, and understanding cyber-physical systems. [Harmony Search and Nature Inspired Optimization Algorithms](#) Jul 07 2020 The book covers different aspects of real-world applications of optimization algorithms. It provides insights from the Fourth International Conference on Harmony Search, Soft Computing and Applications held at BML Munjal University, Gurgaon, India on February 7-9, 2018. It consists of research articles on novel and newly proposed optimization algorithms; the theoretical study of nature-inspired optimization algorithms; numerically established results of nature-inspired optimization algorithms; and real-world applications of optimization algorithms and synthetic benchmarking of optimization algorithms.

Recent Advances in Materials, Mechanics and Management Aug 20 2021 These proceedings present a selection of papers presented at the 3rd International Conference on Materials Mechanics and Management 2017 (IMMM 2017), which was jointly organized by the Departments of Civil Engineering, Mechanical Engineering and Architecture of College of Engineering Trivandrum. Developments in the fields of materials, mechanics and management have paved the way for overall improvements in all aspects of human life. The quest for meeting the requirements of the rapidly increasing population has led to revolutionary construction and production technologies aiming at optimum management and use of natural resources. The objective of this conference was to bring together experts from academic institutions, industries, research organizations and professionals for sharing of knowledge, expertise and experience in the emerging trends related to Civil Engineering, Mechanical Engineering and Architecture. IMMM 2017 provided opportunities for young researchers to

actively engage in research discussions, new research interests, research ethics and professional development.

[Lightweight Materials](#) Jan 13 2021

[Lightweight Ballistic Composites](#) Jun 05 2020 Ballistic composites need to be lightweight and durable as well as exhibiting high impact resistance and damage tolerance. This

important book reviews these requirements, how the materials used for ballistic composites meet them and their range of applications. After an introductory chapter, Lightweight ballistic composites is split into two main sections. The first part of the book explores material requirements and testing. There are chapters on bullets and bullet fragments, material responses to ballistic impact, standards and specifications, modelling and test methods. Part Two reviews the range of materials used, production methods and applications. Topics discussed include high-performance ballistic fibres and ceramics, non-woven ballistic and prepreg composites, and their uses in body armour, vehicle and aircraft protection. This major book is the first of its kind to give a comprehensive review of the current use of lightweight ballistic composites in both military and law-enforcement applications. It is an invaluable reference for all those involved in personnel and vehicle protection in defence and police forces around the world. Reviews the current use of lightweight ballistic composites in both military and law-enforcement application An authoritative overview of the range of materials used, production methods and applications Explores material requirements and testing

Information Security Theory and Practice. Security, Privacy and Trust in Computing Systems and Ambient Intelligent

Ecosystems Jun 25 2019 This volume constitutes the refereed proceedings of the 6th IFIP WG 11.2 International Workshop on Information Security Theory and Practice: Security, Privacy and Trust in Computing Systems and Ambient Intelligent Ecosystems, WISTP 2012, held in Egham, UK, in June 2012. The 9 revised full papers and 8 short papers presented together with three keynote speeches were carefully reviewed and selected from numerous submissions. They are organized in topical sections on protocols, privacy, policy and access control, multi-party computation, cryptography, and mobile security.

Knowledge Science, Engineering and Management Oct 10 2020 The three-volume sets constitute the refereed proceedings of the 15th International Conference on Knowledge Science, Engineering and Management, KSEM 2022, held in Singapore, during August 68, 2022. The 169 full papers presented in these proceedings were carefully reviewed and selected from 498 submissions. The papers are organized in the following topical sections: Volume I: Knowledge Science with Learning and AI (KSLA) Volume II: Knowledge Engineering Research and Applications (KERA) Volume III: Knowledge Management with Optimization and Security (KMOS).

Department of the Interior and Related Agencies Appropriations for 1996 Aug 27 2019

Intelligent Robotics and Applications Jun 17 2021 The 4-volume set LNAI 13455 - 13458

constitutes the proceedings of the 15th International Conference on Intelligent Robotics and Applications, ICIRA 2022, which took place in Harbin China, during August 2022. The 284 papers included in these proceedings were carefully reviewed and selected from 442 submissions. They were organized in topical sections as follows: Robotics, Mechatronics, Applications, Robotic Machining, Medical Engineering, Soft and Hybrid Robots, Human-robot Collaboration, Machine Intelligence, and Human Robot Interaction.

Lightweight Composite Structures in Transport Jul 31 2022 Lightweight Composite Structures in Transport: Design, Manufacturing, Analysis and Performance provides a detailed review of lightweight composite materials and structures and discusses their use in the transport industry, specifically surface and air transport. The book covers materials selection, the properties and performance of materials, and structures, design solutions, and manufacturing techniques. A broad range of different material classes is reviewed with emphasis on advanced materials. Chapters in the first two parts of the book consider the lightweight philosophy and current developments in manufacturing techniques for lightweight composite structures in the transport industry, with subsequent chapters in parts three to five discussing structural optimization and analysis, properties, and performance of lightweight composite structures, durability, damage tolerance and structural integrity. Final chapters present case studies on lightweight composite design for transport structures. Comprehensively covers materials selection, design solutions, manufacturing techniques, structural analysis, and performance of lightweight composite structures in the transport industry Includes commentary from leading industrial and academic experts in the field who present cutting-edge research on advanced lightweight materials for the transport industry Includes case studies on lightweight composite design for transport structures

Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing 2015 Dec 12 2020 This edited book presents scientific results of the 16th IEEE/ACIS International Conference on Software Engineering, Artificial Intelligence, Networking and Parallel/Distributed Computing (SNPD 2015) which was held on June 1 - 3, 2015 in Takamatsu, Japan. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. Research results about all aspects (theory, applications and tools) of computer and information science, and to discuss the practical challenges encountered along the way and the solutions adopted to solve them.

Structural Mechanics in Lightweight Engineering May 29 2022 This book provides a comprehensive yet concise presentation of the analysis methods of lightweight engineering in the context of the statics of beam structures

and is divided into four sections. Starting from very general remarks on the fundamentals of elasticity theory, the first section also addresses plane problems as well as strength criteria of isotropic materials. The second section is devoted to the analytical treatment of the statics of beam structures, addressing beams under bending, shear and torsion. The third section deals with the work and energy methods in lightweight construction, spanning classical methods and modern computational methods such as the finite element method. Finally, the fourth section addresses more advanced beam models, discussing hybrid structures as well as laminated and sandwich beams, in addition to shear field beams and shear deformable beams. This book is intended for students at technical colleges and universities, as well as for engineers in practice and researchers in engineering.

[Information Science and Applications](#) Jan 31 2020 This book presents selected papers from the 10th International Conference on Information Science and Applications (ICISA 2019), held on December 16-18, 2019, in Seoul, Korea, and provides a snapshot of the latest issues regarding technical convergence and convergences of security technologies. It explores how information science is at the core of most current research as well as industrial and commercial activities. The respective chapters cover a broad range of topics, including ubiquitous computing, networks and information systems, multimedia and visualization, middleware and operating systems, security and privacy, data mining and artificial intelligence, software engineering and web technology, as well as applications and problems related to technology convergence, which are reviewed and illustrated with the aid of case studies. Researchers in academia, industry, and at institutes focusing on information science and technology will gain a deeper understanding of the current state of the art in information strategies and technologies for convergence security.

[Textile Materials for Lightweight Constructions](#) Oct 22 2021 In this book, experts on textile technologies convey both general and specific information on various aspects of textile engineering, ready-made technologies, and textile chemistry. They describe the entire process chain from fiber materials to various yarn constructions, 2D and 3D textile constructions, preforms, and interface layer design. In addition, the authors introduce testing methods, shaping and simulation techniques for the characterization of and structural mechanics calculations on anisotropic, pliable high-performance textiles, including specific examples from the fields of fiber plastic composites, textile concrete and textile membranes. Readers will also be familiarized with the potential offered by increasingly employed textile structures, for instance in the fields of composite technology, construction technology, security technology and membrane technology.

[Materials, Design and Manufacturing for Lightweight Vehicles](#) Sep 08 2020 Research into the manufacture of lightweight automobiles is driven by the need to reduce fuel consumption to preserve dwindling hydrocarbon resources without compromising other attributes such as safety, performance,

recyclability and cost. Materials, design and manufacturing for lightweight vehicles will make it easier for engineers to not only learn about the materials being considered for lightweight automobiles, but also to compare their characteristics and properties. Part one discusses materials for lightweight automotive structures with chapters on advanced steels for lightweight automotive structures, aluminium alloys, magnesium alloys for lightweight powertrains and automotive structures, thermoplastics and thermoplastic matrix composites and thermoset matrix composites for lightweight automotive structures. Part two reviews manufacturing and design of lightweight automotive structures covering topics such as manufacturing processes for light alloys, joining for lightweight vehicles, recycling and lifecycle issues and crashworthiness design for lightweight vehicles. With its distinguished editor and renowned team of contributors, *Materials, design and manufacturing for lightweight vehicles* is a standard reference for practicing engineers involved in the design and material selection for motor vehicle bodies and components as well as material scientists, environmental scientists, policy makers, car companies and automotive component manufacturers. Provides a comprehensive analysis of the materials being used for the manufacture of lightweight vehicles whilst comparing characteristics and properties Examines crashworthiness design issues for lightweight vehicles and further emphasises the development of lightweight vehicles without compromising safety considerations and performance Explores the manufacturing process for light alloys including metal forming processes for automotive applications

Advanced Lightweight Multifunctional Materials Aug 08 2020 *Advanced Lightweight Multifunctional Materials* presents the current state-of-the-art on multifunctional materials research, focusing on different morphologies and their preparation and applications. The book emphasizes recent advances on these types of materials as well as their application. Chapters cover porous multifunctional materials, thermochromic and thermoelectric materials, shape memory materials, piezoelectric multifunctional materials, electrochromic and electrorheological, soft materials, magnetic and photochromic materials, and more. The book will be a valuable reference resource for academic researchers and industrial engineers working in the design and manufacture of multifunctional materials, composites and nanocomposites. Provides detailed information on design, modeling and structural applications Focuses on characteristics, processing, design and applications Discusses the main types of lightweight multifunctional materials and processing techniques, as well as the physico-chemical insights that can lead to improved performance

Conceptual Modeling: Foundations and Applications Nov 22 2021 This Festschrift volume, published in honor of John Mylopoulos on the occasion of his retirement from the University of Toronto, contains 25 high-quality papers, written by leading scientists in the field of conceptual modeling. The volume has been divided into six sections. The first section

focuses on the foundations of conceptual modeling and contains material on ontologies and knowledge representation. The four sections on software and requirements engineering, information systems, information integration, and web and services, represent the chief current application domains of conceptual modeling. Finally, the section on implementations concentrates on projects that build tools to support conceptual modeling. With its in-depth coverage of diverse topics, this book could be a useful companion to a course on conceptual modeling.

Just Spring Integration Sep 01 2022 Get started with Spring Integration, the lightweight Java-based framework that makes designing and developing message-oriented architectures a breeze. Through numerous examples, you'll learn how to use this open source framework's basic building blocks to work with both inter- and intra-application programming models. If you're a Java developer familiar with the Spring framework (perhaps through O'Reilly's *Just Spring* tutorial) and want to advance your skills with Enterprise Application Integration (EAI) patterns, and messaging systems in particular, this book is ideal. Learn Spring Integration fundamentals, including channels, endpoints, and messages Use message channels to decouple applications, separating producers from consumers Discover how common endpoint patterns separate a messaging application's business logic from integration details Create a seamless integration between the endpoints, using Transformers Implement Spring Integration's flow components to design your messaging application's business flow Configure the framework's File, FTP, JMS, and JDBC adapters to integrate with external systems

Just Hibernate Nov 03 2022 If you're looking for a short, sweet, and simple introduction (or reintroduction) to Hibernate, this is the book you want. Through clear real-world examples, you'll learn Hibernate and object-relational mapping from the ground up, starting with the basics. Then you'll dive into the framework's moving parts to understand how they work in action. Storing Java objects in relational databases is usually a challenging and complex task for any Java developer, experienced or not. This book, like others in the *Just* series, delivers a concise, example-driven tutorial for Java beginners. You'll gain enough knowledge and confidence to start working on real-world projects with Hibernate. Compare how JDBC and Hibernate work with object persistence Learn how annotations are used to create Hibernate applications Understand how to persist and retrieve Java data structures Focus on the fundamentals of associations and their mappings Delve into advanced concepts such as caching, inheritance, and types Walk through the Hibernate Query Language API, with examples Develop Java Persistence API applications, using Hibernate as the provider Work hands-on with code snippets to understand the technology

Information Systems Security Apr 03 2020 This book constitutes the refereed proceedings of the 6th International Conference on Information Systems Security, ICISS 2010, held in Gandhinagar, India, in December 2010. The 14 revised full papers presented together with 4 invited talks were carefully reviewed and

selected from 51 initial submissions. The papers are organized in topical sections on integrity and verifiability, web and data security, access control and auditing, as well as system security.

America's Textile Reporter Sep 28 2019

Lightweight Django Apr 27 2022 How can you take advantage of the Django framework to integrate complex client-side interactions and real-time features into your web applications? Through a series of rapid application development projects, this hands-on book shows experienced Django developers how to include REST APIs, WebSockets, and client-side MVC frameworks such as Backbone.js into new or existing projects. Learn how to make the most of Django's decoupled design by choosing the components you need to build the lightweight applications you want. Once you finish this book, you'll know how to build single-page applications that respond to interactions in real time. If you're familiar with Python and JavaScript, you're good to go. Learn a lightweight approach for starting a new Django project Break reusable applications into smaller services that communicate with one another Create a static, rapid prototyping site as a scaffold for websites and applications Build a REST API with django-rest-framework Learn how to use Django with the Backbone.js MVC framework Create a single-page web application on top of your REST API Integrate real-time features with WebSockets and the Tornado networking library Use the book's code-driven examples in your own projects

Agile Processes in Software Engineering and Extreme Programming Nov 10 2020 Interest in agile development continues to grow: the number of practitioners adopting such methodologies is increasing as well as the number of researchers investigating the effectiveness of the different practices and proposing improvements. The XP conference series has actively participated in these processes and supported the evolution of Agile, promoting the conference as a place where practitioners and researchers meet to exchange ideas, experiences, and build connections. XP 2010 continued in the tradition of this conference series and provided an interesting and varied program. As usual, we had a number of different kinds of activities in the conference program including: research papers, experience reports, tutorials, workshops, panels, lightning talks, and posters. These proceedings contain full - search papers, short research papers, and experience reports. Moreover, we have also included in these proceedings the abstracts of the posters, the position papers of the PhD symposium, and the abstract of the panel. This year we had two different program committees for evaluating research papers and experience reports. Each committee included experts in the specific area. This approach allowed us to better evaluate the quality of the papers and provide better suggestions to the authors to improve the quality of their contributions.

That Book on Blockchain: A One-Hour Intro Jan 25 2022 If you need a time-saving and accurate start to the world of blockchain, this is the book for you! The average reader can consume around 200 words per minute. *That Book on Blockchain* is a blazing fast -- but thorough -- one-hour introduction. Inside, you'll find an overview of many prominent blockchain topics,

including discussion of distributed ledgers, legal landscapes, industry adoption, and Bitcoin, proper. Additionally, you'll examine several abstract, key concepts through easily worded thought experiments. We certainly can't cover every topic in an hour! But, whether you're brand new to the crypto-space or a well-seasoned guru, *That Book on Blockchain* is guaranteed to pique your interest and serve as a motivator for further exploration.

[Introduction to Dynamics and Control of Flexible Structures](#) Jul 27 2019

Lightweight Aggregate Concrete Sep 20 2021 In spite of the increasing use and demand for lightweight aggregate concrete (LWAC), there is still a lack of adequate explanations to understand the mechanisms responsible for the strength and durability properties of LWAC. This book is written to give an overall picture of LWAC, from the historical background, aggregate production, proportioning and production of concrete, to applications in structures. Physical properties and chemical durability are described in detail. The physical properties include density, strength, shrinkage, and elasticity. Chemical durability includes resistance to acids, chloride ingress, carbonation, and freeze-thaw resistance. Fire resistance is also included, which is seldom considered, but is a very important aspect of the safety of the structure. Microstructure development and its relation to the durability properties of LWAC generally are not highlighted in the literature. The development of bonds, the microstructure with different binder systems, and different types of lightweight aggregates are explained. They show how lightweight aggregate concrete differs from normal weight concrete. The chapters on chloride ingress and freeze-thaw resistance are detailed because of the use of LWAC in offshore construction. The economical aspects of using LWAC are also reviewed. Emphasis is placed on the fact that although the cost of LWAC is high, the total cost of construction has to be considered, including the cost of transport, reinforcement, etc. When these are considered then LWAC becomes cheaper and attractive. The life cycle cost of the concrete is another consideration for calculating long-term savings on maintenance costs.

Coordination Models and Languages May 17 2021 Modern information systems rely increasingly on combining concurrent, distributed, real-time, reconfigurable and heterogeneous components. New models, architectures, languages, and verification techniques are necessary to cope with the complexity induced by the demands of today's software development. COORDINATION aims to explore the spectrum of languages, middleware, services, and algorithms that separate behavior from interaction, therefore increasing modularity, simplifying reasoning, and ultimately enhancing software development. This volume contains the proceedings of the 10th International Conference on Coordination Models and Languages, COORDINATION 2008, held in Oslo, Norway in June 2008, as part of the federated DisCoTec conference. COORDINATION is itself a part of a series whose proceedings have been published in LNCS volumes 1061, 1282, 1594, 1906, 2315, 2949, 3454, 4038, and 4467.

From the 61 submissions received from around the world, the Program Committee selected 21 papers for presentation and publication in this volume on the basis of originality, quality, and relevance to the topics of the conference. Each submission received at least three reviews. As with previous editions, the paper submission and selection processes were managed entirely electronically. This was accomplished using EasyChair, a free Web-based conference management system. In addition to the technical paper presentations, COORDINATION 2008 hosted an invited presentation by Matt Welsh from Harvard University. We are grateful to all the Program Committee members who devoted much effort and time to read and discuss the papers. Moreover, we acknowledge the help of additional external reviewers who evaluated submissions in their area of expertise.

Finally, we would like to thank the authors of all the submitted papers and the conference attendees, for keeping this research community lively and interactive, and ultimately ensuring the success of this conference series.

ROBOT 2017: Third Iberian Robotics Conference Oct 29 2019 These volumes of "Advances in Intelligent Systems and Computing" highlight papers presented at the "Third Iberian Robotics Conference (ROBOT 2017)". Held from 22 to 24 November 2017 in Seville, Spain, the conference is a part of a series of conferences co-organized by SEIDROB (Spanish Society for Research and Development in Robotics) and SPR (Portuguese Society for Robotics). The conference is focused on Robotics scientific and technological activities in the Iberian Peninsula, although open to research and delegates from other countries. Thus, it has more than 500 authors from 21 countries. The volumes present scientific advances but also robotic industrial applications, looking to promote new collaborations between industry and academia.

Just Spring Oct 02 2022 Get a concise introduction to Spring, the popular open source framework for building lightweight enterprise applications on the Java platform. This example-driven book for Java developers delves into the framework's basic features, as well as complex concepts such as containers. You'll learn how Spring makes Java Messaging Service easier to work with, and how its support for Hibernate helps you work with data persistence and retrieval. In this revised edition of Just Spring, you'll get your hands deep into sample code, beginning with a problem that illustrates Spring's core principle: dependency injection. In the chapters that follow, author Madhusudhan Konda walks you through features that underlie the solution. Dive into the new chapter on advanced concepts, such as bean scopes and property editors Learn dependency injection through a simple object coupling problem Tackle the framework's core fundamentals, including beans and bean factories Discover how Spring makes the Java Messaging Service API easier to use Learn how Spring has revolutionized data access with Java DataBase Connectivity (JDBC) Use Spring with the Hibernate framework to manipulate data as objects

VBScript Nov 30 2019 Through an interactive format incorporating tutorials and quizzes, this CD-ROM lays out a full-color, slide-based

introduction to the nuanced uses of VBScript in a wide variety of Microsoft environments. Perfect for those who want to do simple programming in Windows but are not ready for the full-blown Visual Basic, the electronic guide provides instruction on how to use NotePad to produce programs that interact with Access, Excel, File Management, HTML web pages, Outlook, and more. Filled with frequent tests and evaluations, this general-purpose approach to VBScript demonstrates how to use loops, arrays, data validation, custom subs and functions, and much more.

Stabilization, Safety, and Security of Distributed Systems Mar 03 2020 This book constitutes the refereed proceedings of the 12th International Symposium on Stabilization, Safety, and Security of Distributed Systems, SSS 2010, held in New York, USA, in September 2010. The 39 revised full papers were carefully reviewed and selected from 90 submissions. The papers address all safety and security-related aspects of self-stabilizing systems in various areas. The most topics related to self-* systems. The tracks were: self-stabilization; self-organization; ad-hoc, sensor, and dynamic networks; peer to peer; fault-tolerance and dependable systems; safety and verification; swarm, amorphous, spatial, and complex systems; security; cryptography, and discrete distributed algorithms.

Organic Computing – A Paradigm Shift for Complex Systems Jul 19 2021 Organic Computing has emerged as a challenging vision for future information processing systems. Its basis is the insight that we will increasingly be surrounded by and depend on large collections of autonomous systems, which are equipped with sensors and actuators, aware of their environment, communicating freely, and organising themselves in order to perform actions and services required by the users. These networks of intelligent systems surrounding us open fascinating application areas and at the same time bear the problem of their controllability. Hence, we have to construct such systems as robust, safe, flexible, and trustworthy as possible. In particular, a strong orientation towards human needs as opposed to a pure implementation of the technologically possible seems absolutely central. The technical systems, which can achieve these goals will have to exhibit life-like or "organic" properties. "Organic Computing Systems" adapt dynamically to their current environmental conditions. In order to cope with unexpected or undesired events they are self-organising, self-configuring, self-optimising, self-healing, self-protecting, self-explaining, and context-aware, while offering complementary interfaces for higher-level directives with respect to the desired behaviour. First steps towards adaptive and self-organising computer systems are being undertaken. Adaptivity, reconfigurability, emergence of new properties, and self-organisation are hot topics in a variety of research groups worldwide. This book summarises the results of a 6-year priority research program (SPP) of the German Research Foundation (DFG) addressing these fundamental challenges in the design of Organic Computing systems. It presents and discusses the theoretical foundations of Organic Computing, basic methods and tools, learning techniques used in this context,

architectural patterns and many applications. The final outlook shows that in the mean-time Organic Computing ideas have spawned a variety of promising new projects.

Sustainable Composites for Lightweight Applications Feb 23 2022 Carbon and glass fibre reinforced composite materials have been used for many years in several different types of applications. However, these conventional composites are derived from non-renewable reinforcements and they pose a significant threat to the environment. Government legislation and consumer behaviour have recently forced many industries to adapt sustainable composites. Industries such as automotive, marine and aerospace are now seeking sustainable lightweight composites with the aim to reduce the overall weight of the components with enhanced materials and design aspects. Therefore, there is high demand on research for the development of sustainable lightweight composites. This book presents a comprehensive review of lightweight composites with the central aim to increase their use in key industrial sectors such as automotive, marine and aerospace. There is no such book currently available that is dedicated to sustainable lightweight applications covering important topics such as key drivers for lightweight composites, mechanical properties, damage characterisation, durability and environmental aspects. Key topics that are addressed include: The roles of reinforcements and matrices in composite materials Sustainable natural fibre reinforcements and their morphological structures Lightweight applications and properties requirements Design, manufacturing processes and their effects on properties Testing and damage characterisation of composite materials Sustainable composites and techniques for property enhancement Future trends and challenges for sustainable composites in lightweight applications It will be a valuable

reference resource for those working in material Science, polymer science, materials engineering, and industries involved in the manufacture of automotive and aerospace components from lightweight composite materials. Provides a comprehensive review of sustainable lightweight composites looking at key industrial applications such as automotive, marine, and aerospace and construction Important relationships between structure and properties are analysed in detail Enhancement of properties through hybrid systems, are also explored with emphasis on design, materials selection and manufacturing techniques Computer Vision – ECCV 2020 Workshops Feb 11 2021 The 6-volume set, comprising the LNCS books 12535 until 12540, constitutes the refereed proceedings of 28 out of the 45 workshops held at the 16th European Conference on Computer Vision, ECCV 2020. The conference was planned to take place in Glasgow, UK, during August 23-28, 2020, but changed to a virtual format due to the COVID-19 pandemic. The 249 full papers, 18 short papers, and 21 further contributions included in the workshop proceedings were carefully reviewed and selected from a total of 467 submissions. The papers deal with diverse computer vision topics. Part III includes the Advances in Image Manipulation Workshop and Challenges. Handbook of Optomechanical Engineering Mar 27 2022 Good optical design is not in itself adequate for optimum performance of optical systems. The mechanical design of the optics and associated support structures is every bit as important as the optics themselves. Optomechanical engineering plays an increasingly important role in the success of new laser systems, space telescopes and instruments, biomedical and optical communication equipment, imaging entertainment systems, and more. This is the first handbook on the subject of optomechanical engineering, a subject that has become very

important in the area of optics during the last decade. Covering all major aspects of optomechanical engineering - from conceptual design to fabrication and integration of complex optical systems - this handbook is comprehensive. The practical information within is ideal for optical and optomechanical engineers and scientists involved in the design, development and integration of modern optical systems for commercial, space, and military applications. Charts, tables, figures, and photos augment this already impressive handbook. The text consists of ten chapters, each authored by a world-renowned expert. This unique collaboration makes the Handbook a comprehensive source of cutting edge information and research in the important field of optomechanical engineering. Some of the current research trends that are covered include:

Light Weight Materials Jun 29 2022 In the automotive and aerospace industries, the need for strong yet light materials has given rise to extensive research into aluminum and magnesium alloys and formable titanium alloys. All of these are categorized as light weight materials. The distinguishing feature of light weight materials is that they are low density, but they have a wide range of properties and, as a result, a wide range of applications. This book provides researchers and students with an overview of the recent advancements in light weight material processing, manufacturing and characterization. It contains chapters by eminent researchers on topics associated with light weight materials, including on the current buzzword “composite materials”. First, this book describes the current status of light weight materials. Then, it studies applications of these materials, given that, as the densities vary, so do the applications, ranging from automobiles and aviation to bio-mechatronics. This book will therefore serve as an excellent guide to this field.