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JAGUAR XK8 AND XKR

Motor Racing Publications Powered by a silky smooth 4-litre V8 engine, the XK8 and XKR have set new standards in performance, refinement and comfort. This colorful guide examines XK heritage through to the famous E-type and then traces Jaguar's return, after a foray into the GT market with the XJS, to the design and development of the cars which have been the company's flagships for the past four years. A special chapter is devoted to two exciting two-seater prototypes: the XK180 and the F-type Concept. Features production and sales history, technical specs, performance assessments, optional equipment, model ID features, design, and development.

INTRODUCTION TO ALL-WHEEL DRIVE

PROBABILITY AND RANDOM PROCESSES

Oxford University Press This textbook provides a wide-ranging and entertaining introduction to probability and random processes and many of their practical applications. It includes many exercises and problems with solutions.

CAR AND DRIVER

MINING OF MASSIVE DATASETS

Cambridge University Press Now in its second edition, this book focuses on practical algorithms for mining data from even the largest datasets.

SPORTS CARS ILLUSTRATED

THE SPORTS CAR

ITS DESIGN AND PERFORMANCE

Springer Science & Business Media 1 The Development of the Sports Car.- Motor sport.- The sports car.- The history of the sports car.- The first sports car.- The fabulous years.- Historic sports cars.- The future of the sports car.- 2 The Engine: Combustion.- Cylinder head history.- Combustion chamber research.- Volumetric efficiency.- Knock.- Limiting compression ratio.- Types of combustion chamber.- 3 The Engine: Induction and Exhaust.- The induction system.- The 4-cylinder in-line engine.- The 6-cylinder in-line engine.- The V-8 engine.- Ramming induction pipes.- Ramming pipe theory.- Forward-ram intakes.- Cold-air intakes.

DATA SCIENCE IN ENGINEERING, VOLUME 9

PROCEEDINGS OF THE 39TH IMAC, A CONFERENCE AND EXPOSITION ON STRUCTURAL DYNAMICS 2021

Springer Nature Data Science and Engineering Volume 9: Proceedings of the 39th IMAC, A Conference and Exposition on Structural Dynamics, 2021, the ninth volume of nine from the Conference, brings together contributions to this important area of research and engineering. The collection presents early findings and case studies on fundamental and applied aspects of Data Science in Engineering, including papers on: Data Science in Engineering Applications Engineering Mathematics Computational Methods in Engineering

WILDLIFE CONSERVATION IN CHINA: PRESERVING THE HABITAT OF CHINA'S WILD WEST

Routledge Very little is known about the issue of wildlife conservation within China. Even China specialists get a meager ration of stories about pandas giving birth in zoos, or poachers in some remote setting being apprehended. But what does the future hold for China's wildlife? In this thoughtful work the leading U.S. expert on wildlife projects in Western China presents a multi-faceted assessment of the topic. Richard B. Harris draws on twenty years of experience working in China, and incorporates perspectives ranging from biology through Chinese history and tradition, to interpret wildlife conservation issues in a cultural context. In non-technical language, Harris shows that, particularly in its vast western sections where most species of wildlife still have a chance to survive, China has adopted a strongly preservationist, "hands-off" approach to wildlife without confronting the larger and more difficult problem of habitat loss. This policy treats wildlife conservation as a strictly technical problem - and thus prioritizes captive breeding to meet the demand for animal products - while ignoring the manifold cultural, social, and economic dimensions that truly dictate how wild animals will fare in their interaction with the physical and human environments. The author concludes that any successes this policy achieves will be temporary.

BASICS OF SOFTWARE ENGINEERING EXPERIMENTATION

Springer Science & Business Media Basics of Software Engineering Experimentation is a practical guide to experimentation in a field which has long been underpinned by suppositions, assumptions, speculations and beliefs. It demonstrates to software engineers how Experimental Design and Analysis can be used to validate their beliefs and ideas. The book does not assume its readers have an in-depth knowledge of mathematics, specifying the conceptual essence of the techniques to use in the design and analysis of experiments and keeping the mathematical calculations clear and simple. Basics of Software Engineering Experimentation is practically oriented and is specially written for software engineers, all the examples being based on real and fictitious software engineering experiments.

LUXURY FASHION BRANDING

TRENDS, TACTICS, TECHNIQUES

Springer This groundbreaking fashion branding and management text brings an analytical business dimension to the marketing and corporate techniques of the luxury fashion goods industry. It will make engaging reading for anyone who wishes to learn about the captivating business of turning functional products into objects of desire.

AUTOCAR

COMPLEXITY THEORY AND NETWORK CENTRIC WARFARE

DIANE Publishing A report by the Dept. of Defense's Command and Control Research Program. Contents: (1) Complexity in Natural and Economic Systems; (2) Concepts for Warfare from Complexity Theory; (3) Evidence for Complex Emergent Behavior in Historical Data; (4) Mathematical Modeling of Complexity, Knowledge, and Conflict; (5) An Extended Example of the Dynamics of Local Collaboration and Clustering, and Some Final Thoughts. Appendix: Optimal Control with a Unique Control Solution. Tables and figures.

THE ROVER V8 ENGINE

Haynes Publications A thorough technical assessment of the Rover V8 engine and all methods of tuning for increased power output. Filled with the V8s transatlantic origins and production, its competition career in rallies and in saloon car road racing, plus details of all Rover V8 speed equipment suppliers and professional engine builders. This volume brings the Rover V8 story up-to-date with developments ranging from the factory 3.9 litre, to the Range Rover of 1994.

MACHINE LEARNING FOR TEXT

Springer Text analytics is a field that lies on the interface of information retrieval, machine learning, and natural language processing, and this textbook carefully covers a coherently organized framework drawn from these intersecting topics. The chapters of this textbook is organized into three categories: - Basic algorithms: Chapters 1 through 7 discuss the classical algorithms for machine learning from text such as preprocessing, similarity computation, topic modeling, matrix factorization, clustering, classification, regression, and ensemble analysis. - Domain-sensitive mining: Chapters 8 and 9 discuss the learning methods from text when combined with different domains such as multimedia and the Web. The problem of information retrieval and Web search is also discussed in the context of its relationship with ranking and machine learning methods. - Sequence-centric mining: Chapters 10 through 14 discuss various sequence-centric and natural language applications, such as feature engineering, neural language models, deep learning, text summarization, information extraction, opinion mining, text segmentation, and event detection. This textbook covers machine learning topics for text in detail. Since the coverage is extensive, multiple courses can be offered from the same book, depending on course level. Even though the presentation is text-centric, Chapters 3 to 7 cover machine learning

algorithms that are often used in domains beyond text data. Therefore, the book can be used to offer courses not just in text analytics but also from the broader perspective of machine learning (with text as a backdrop). This textbook targets graduate students in computer science, as well as researchers, professors, and industrial practitioners working in these related fields. This textbook is accompanied with a solution manual for classroom teaching.

AN INTRODUCTION TO TRANSFER ENTROPY

INFORMATION FLOW IN COMPLEX SYSTEMS

Springer This book considers a relatively new metric in complex systems, transfer entropy, derived from a series of measurements, usually a time series. After a qualitative introduction and a chapter that explains the key ideas from statistics required to understand the text, the authors then present information theory and transfer entropy in depth. A key feature of the approach is the authors' work to show the relationship between information flow and complexity. The later chapters demonstrate information transfer in canonical systems, and applications, for example in neuroscience and in finance. The book will be of value to advanced undergraduate and graduate students and researchers in the areas of computer science, neuroscience, physics, and engineering.

SCIENTIFIC COMPUTING WITH MATLAB AND OCTAVE

Springer Science & Business Media Preface to the First Edition This textbook is an introduction to Scientific Computing. We will illustrate several numerical methods for the computer solution of certain classes of mathematical problems that cannot be faced by paper and pencil. We will show how to compute the zeros or the integrals of continuous functions, solve linear systems, approximate functions by polynomials and construct accurate approximations for the solution of differential equations. With this aim, in Chapter 1 we will illustrate the rules of the game that computers adopt when storing and operating with real and complex numbers, vectors and matrices. In order to make our presentation concrete and appealing we will adopt the programming environment MATLAB as a faithful companion. We will gradually discover its principal commands, statements and constructs. We will show how to execute all the algorithms that we introduce throughout the book. This will enable us to furnish an immediate quantitative assessment of their theoretical properties such as stability, accuracy and complexity. We will solve several problems that will be raised through exercises and examples, often stemming from scientific applications.

ROAD & TRACK

INTRODUCTION TO COST-BENEFIT ANALYSIS

LOOKING FOR REASONABLE SHORTCUTS

Edward Elgar Publishing This thoroughly updated second edition incorporates key ideas and discussions on issues such as wider economic impacts, the treatment of risk, and the importance of institutional arrangements in ensuring the correct use of technique. Ginés de Rus considers whether public decisions, such as investing in high-speed rail links, privatizing a public enterprise or protecting a natural area, may improve social welfare.

WEB DATA MANAGEMENT

Cambridge University Press The Internet and World Wide Web have revolutionized access to information. Users now store information across multiple platforms from personal computers to smartphones and websites. As a consequence, data management concepts, methods and techniques are increasingly focused on distribution concerns. Now that information largely resides in the network, so do the tools that process this information. This book explains the foundations of XML with a focus on data distribution. It covers the many facets of distributed data management on the Web, such as description logics, that are already emerging in today's data integration applications and herald tomorrow's semantic Web. It also introduces the machinery used to manipulate the unprecedented amount of data collected on the Web. Several 'Putting into Practice' chapters describe detailed practical applications of the technologies and techniques. The book will serve as an introduction to the new, global, information systems for Web professionals and master's level courses.

ROBOTICS, VISION AND CONTROL

FUNDAMENTAL ALGORITHMS IN MATLAB

Springer The author has maintained two open-source MATLAB Toolboxes for more than 10 years: one for robotics and one for vision. The key strength of the Toolboxes provide a set of tools that allow the user to work with real problems, not trivial examples. For the student the book makes the algorithms accessible, the Toolbox code can be read to gain understanding, and the examples illustrate how it can be used — instant gratification in just a couple of lines of MATLAB code. The code can also be the starting point for new work, for researchers or students, by writing programs based on Toolbox functions, or modifying the Toolbox code itself. The purpose of this book is to expand on the tutorial material provided with the toolboxes, add many more examples, and to weave this into a narrative that covers robotics and computer vision separately and together. The author shows how complex problems can be decomposed and solved using just a few simple lines of code, and hopefully to inspire up and coming researchers. The topics covered are guided by the real problems observed over many years as a practitioner of both robotics and computer vision. It is written in a light but informative style, it is easy to read and absorb, and includes a lot of Matlab examples and figures. The book is a real walk through the fundamentals of robot kinematics, dynamics and joint level control, then camera models, image processing, feature extraction and epipolar geometry, and bring it all together in a visual servo system. Additional material is provided at <http://www.petercorke.com/RVC>

SERVICE DESIGN AND DELIVERY

Springer Science & Business Media Service Design and Delivery provides a comprehensive overview of the increasingly important role played by the service industry. Focusing on the development of different processes employed by service organizations, the book emphasizes management of service in relation to products. It not only explores the complexity of this relationship, but also introduces strategies used in the design and management of service across various sectors, highlighting where tools, techniques and processes applicable to one sector may prove useful in another. The implementation methods introduced in the book also illustrate how and why companies can transform themselves into service organizations. While the book is primarily intended as a text for advanced-level courses in service design and delivery, it also contains theoretical and practical knowledge beneficial to both practitioners in the service sector and those in manufacturing contemplating moving towards service delivery.

MULTIMEDIA TOOLS AND APPLICATIONS FOR ENVIRONMENTAL & BIODIVERSITY INFORMATICS

Springer This edited volume focuses on the latest and most impactful advancements of multimedia data globally available for environmental and earth biodiversity. The data reflects the status, behavior, change as well as human interests and concerns which are increasingly crucial for understanding environmental issues and phenomena. This volume addresses the need for the development of advanced methods, techniques and tools for collecting, managing, analyzing, understanding and modeling environmental & biodiversity data, including the automated or collaborative species identification, the species distribution modeling and their environment, such as the air quality or the bio-acoustic monitoring. Researchers and practitioners in multimedia and environmental topics will find the chapters essential to their continued studies.

CARS & PARTS

ROAD AND TRACK

AN INTUITIVE EXPLORATION OF ARTIFICIAL INTELLIGENCE

THEORY AND APPLICATIONS OF DEEP LEARNING

Springer Nature This book develops a conceptual understanding of Artificial Intelligence (AI), Deep Learning and Machine Learning in the truest sense of the word. It is an earnest endeavor to unravel what is happening at the algorithmic level, to grasp how applications are being built and to show the long adventurous road in the future. An Intuitive Exploration of Artificial Intelligence offers insightful details on how AI works and solves problems in computer vision, natural language understanding, speech understanding, reinforcement learning and synthesis of new content. From the classic problem of recognizing cats and dogs, to building autonomous vehicles, to translating text into another language, to automatically converting speech into text and back to speech, to generating neural art, to playing games, and the author's own experience in building solutions in industry, this book is about explaining how exactly the myriad applications of AI flow out of its immense potential. The book is intended to serve as a textbook for graduate and senior-level undergraduate courses in AI. Moreover, since the book provides a strong geometrical intuition about advanced mathematical foundations of AI, practitioners and researchers will equally benefit from the book.

CLASSIC CAR AUCTION 2020-2021 YEARBOOK

CLOUD COMPUTING

THEORY AND PRACTICE

Newnes Cloud Computing: Theory and Practice provides students and IT professionals with an in-depth analysis of the cloud from the ground up. Beginning with a discussion of parallel computing and architectures and distributed systems, the book turns to contemporary cloud infrastructures, how they are being deployed at leading companies such as Amazon, Google and Apple, and how they can be applied in fields such as healthcare, banking and science. The volume also examines how to successfully deploy a cloud application

across the enterprise using virtualization, resource management and the right amount of networking support, including content delivery networks and storage area networks. Developers will find a complete introduction to application development provided on a variety of platforms. Learn about recent trends in cloud computing in critical areas such as: resource management, security, energy consumption, ethics, and complex systems Get a detailed hands-on set of practical recipes that help simplify the deployment of a cloud based system for practical use of computing clouds along with an in-depth discussion of several projects Understand the evolution of cloud computing and why the cloud computing paradigm has a better chance to succeed than previous efforts in large-scale distributed computing

BOOKS IN PRINT

100 YEARS OF RADAR

Springer This book offers fascinating insights into the key technical and scientific developments in the history of radar, from the first patent, taken out by Hülsmeyer in 1904, through to the present day. Landmark events are highlighted and fascinating insights provided into the exceptional people who made possible the progress in the field, including the scientists and technologists who worked independently and under strict secrecy in various countries across the world in the 1930s and the big businessmen who played an important role after World War II. The book encourages multiple levels of reading. The author is a leading radar researcher who is ideally placed to offer a technical/scientific perspective as well as a historical one. He has taken care to structure and write the book in such a way as to appeal to both non-specialists and experts. The book is not sponsored by any company or body, either formally or informally, and is therefore entirely unbiased. The text is enriched by approximately three hundred images, most of which are original and have been accessed by detailed searches in the archives.

MATERIALS SELECTION IN MECHANICAL DESIGN

Pergamon New materials enable advances in engineering design. This book describes a procedure for material selection in mechanical design, allowing the most suitable materials for a given application to be identified from the full range of materials and section shapes available. A novel approach is adopted not found elsewhere. Materials are introduced through their properties; materials selection charts (a new development) capture the important features of all materials, allowing rapid retrieval of information and application of selection techniques. Merit indices, combined with charts, allow optimisation of the materials selection process. Sources of material property data are reviewed and approaches to their use are given. Material processing and its influence on the design are discussed. The book closes with chapters on aesthetics and industrial design. Case studies are developed as a method of illustrating the procedure and as a way of developing the ideas further.

PHASE TRANSITIONS

Princeton University Press Phase transitions--changes between different states of organization in a complex system--have long helped to explain physics concepts, such as why water freezes into a solid or boils to become a gas. How might phase transitions shed light on important problems in biological and ecological complex systems? Exploring the origins and implications of sudden changes in nature and society, Phase Transitions examines different dynamical behaviors in a broad range of complex systems. Using a compelling set of examples, from gene networks and ant colonies to human language and the degradation of diverse ecosystems, the book illustrates the power of simple models to reveal how phase transitions occur. Introductory chapters provide the critical concepts and the simplest mathematical techniques required to study phase transitions. In a series of example-driven chapters, Ricard Solé shows how such concepts and techniques can be applied to the analysis and prediction of complex system behavior, including the origins of life, viral replication, epidemics, language evolution, and the emergence and breakdown of societies. Written at an undergraduate mathematical level, this book provides the essential theoretical tools and foundations required to develop basic models to explain collective phase transitions for a wide variety of ecosystems.

COMPLEXITY EXPLAINED

Springer Science & Business Media This book explains why complex systems research is important in understanding the structure, function and dynamics of complex natural and social phenomena. It illuminates how complex collective behavior emerges from the parts of a system, due to the interaction between the system and its environment. Readers will learn the basic concepts and methods of complex system research. The book is not highly technical mathematically, but teaches and uses the basic mathematical notions of dynamical system theory, making the book useful for students of science majors and graduate courses.

JAGUAR

ALL THE CARS - 3RD EDITION

Haynes Publishing UK Updated for 2013, this book is now updated to include all Jaguar developments of the past four years, a period that has seen a strong turn-round in the company's fortunes, with ever-increasing profitability and good sales growth in China, India and the Middle East. This extensively researched guide provides exhaustive reference detail for all post-war Jaguar models, supported by facts, figures and photographs, from the Mark V saloon through to the latest XF, XK and XJ models. Information provided includes technical specifications, production changes, chassis numbers, production quantities, color schemes, options and accessories. For ease of reference, each model is dealt with in a separate chapter, and all information is presented in clear tabular form. Here is a definitive reference work for enthusiasts, those looking to buy a Jaguar and anyone with a general interest in the marque.

RANDOMNESS AND COMPLEXITY

FROM LEIBNIZ TO CHAITIN

World Scientific The book is a collection of papers written by a selection of eminent authors from around the world in honour of Gregory Chaitin's 60th birthday. This is a unique volume including technical contributions, philosophical papers and essays.

BIODIVERSITY AND HEALTH IN THE FACE OF CLIMATE CHANGE

Springer This open access book identifies and discusses biodiversity's contribution to physical, mental and spiritual health and wellbeing. Furthermore, the book identifies the implications of this relationship for nature conservation, public health, landscape architecture and urban planning - and considers the opportunities of nature-based solutions for climate change adaptation. This transdisciplinary book will attract a wide audience interested in biodiversity, ecology, resource management, public health, psychology, urban planning, and landscape architecture. The emphasis is on multiple human health benefits from biodiversity - in particular with respect to the increasing challenge of climate change. This makes the book unique to other books that focus either on biodiversity and physical health or natural environments and mental wellbeing. The book is written as a definitive 'go-to' book for those who are new to the field of biodiversity and health.

GUINNESS BOOK OF WORLD RECORDS, 1979

THE CHARTERED MECHANICAL ENGINEER

THE TIMES INDEX

Indexes the Times, Sunday times and magazine, Times literary supplement, Times educational supplement, Times educational supplement Scotland, and the Times higher education supplement.

KALMAN FILTERING AND INFORMATION FUSION

Springer This book addresses a key technology for digital information processing: Kalman filtering, which is generally considered to be one of the greatest discoveries of the 20th century. It introduces readers to issues concerning various uncertainties in a single plant, and to corresponding solutions based on adaptive estimation. Further, it discusses in detail the issues that arise when Kalman filtering technology is applied in multi-sensor systems and/or multi-agent systems, especially when various sensors are used in systems like intelligent robots, autonomous cars, smart homes, smart buildings, etc., requiring multi-sensor information fusion techniques. Furthermore, when multiple agents (subsystems) interact with one another, it produces coupling uncertainties, a challenging issue that is addressed here with the aid of novel decentralized adaptive filtering techniques. Overall, the book's goal is to provide readers with a comprehensive investigation into the challenging problem of making Kalman filtering work well in the presence of various uncertainties and/or for multiple sensors/components. State-of-art techniques are introduced, together with a wealth of novel findings. As such, it can be a good reference book for researchers whose work involves filtering and applications; yet it can also serve as a postgraduate textbook for students in mathematics, engineering, automation, and related fields. To read this book, only a basic grasp of linear algebra and probability theory is needed, though experience with least squares, navigation, robotics, etc. would definitely be a plus.