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The Car Hacker's Handbook-Craig Smith 2016-03-01 Modern cars are more computerized than ever. Infotainment and navigation systems, Wi-Fi, automatic software updates, and other innovations aim to make driving more convenient. But vehicle technologies haven't kept pace with today's more hostile security environment, leaving millions vulnerable to attack. The Car Hacker's Handbook will give you a deeper understanding of the computer systems and embedded software in modern vehicles. It begins by examining vulnerabilities and providing detailed explanations of communications over the CAN bus and between devices and systems. Then, once you have an understanding of a vehicle's communication network, you'll learn how to intercept data and perform specific hacks to track vehicles, unlock doors, glitch engines, flood communication, and more. With a focus on low-cost, open source hacking tools such as Metasploit, Wireshark, Kayak, can-utils, and ChipWhisperer, The Car Hacker's Handbook will show you how to:

- Build an accurate threat model for your vehicle
- Reverse engineer the CAN bus to fake engine signals
- Exploit vulnerabilities in diagnostic and data-logging systems
- Hack the ECU and other firmware and embedded systems
- Feed exploits

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through infotainment and vehicle-to-vehicle communication systems
–Override factory settings with performance-tuning techniques
–Build physical and virtual test benches to try out exploits safely
If you're curious about automotive security and have the urge to hack a two-ton computer, make *The Car Hacker's Handbook* your first stop.

Automotive Diagnostic Systems-Keith McCord 2011 Keith McCord recounts the history of automotive onboard diagnostic systems and creation of the rudimentary OBD I systems and the development as well as the evolution of OBD II. Currently, OBD-II (OnBoard Diagnostic II) is the standard of the industry, and this book provides a thorough explanation of this system. It details its main features, capabilities, and characteristics. It shows how to access the port connector on the car, the serial data protocols, and what the serial data means. To understand the diagnostic codes, the numbering system is defined and the table of common DTCs is shown. But most importantly, McCord provides a thorough process for trouble shooting problems, tracing a problem to its root, explaining why DTCs may not lead to the source of the underlying problem, and ultimately resolving the problem.

Advanced Microsystems for Automotive Applications 2013-Jan Fischer-Wolfarth 2013-06-04 The road vehicle of the future will embrace innovations from three major automotive technology fields: driver assistance systems, vehicle networking and alternative propulsion. Smart systems such as adaptive ICT components and MEMS devices, novel network architectures, integrated sensor systems, intelligent interfaces and functional materials form the basis of these features and permit their successful and synergetic integration. They increasingly appear to be the key enabling technologies for safe and green road mobility. For more than fifteen years the International Forum on Advanced Microsystems for Automotive Applications (AMAA) has been successful in detecting novel trends and in discussing the technological implications from early on. The topic of the AMAA 2013 will be "Smart Systems for Safe and Green Vehicles". This book contains peer-reviewed papers written by leading engineers and researchers which all address the ongoing research and novel developments in the field.
www.amaa.de

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Secure IT Systems-Aslan Askarov 2020-01-29 This book constitutes the refereed proceedings of the 24th Nordic Conference on Secure IT Systems, NordSec 2019, held in Aalborg, Denmark, in November 2019. The 17 full papers presented in this volume were carefully reviewed and selected from 32 submissions. They are organized in topical sections named: privacy; network security; platform security and malware; and system and software security.

Mobile Solutions and Their Usefulness in Everyday Life-Sara Paiva 2018-12-11 This book provides an insight into recent technological trends and innovations in 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 must keep up to date with recent trends in platforms, methodologies and technologies to promote urban mobility. Also discuss are broader realms including education, health, electronics, tourism, and transportation. Contributors include a variety of researchers and practitioners around the world.

Infrastructure and Safety in a Collaborative World-Evangelos Bekiaris 2011-07-02 The book investigates how, and which, forgiving road environments (FOR) and self-explaining road measures (SER) will contribute to increasing road safety and also increase network efficiency on the road. It presents both the general approach and the methodology for generating the possible FOR and SER measures. The book further discusses the prioritization and the testing methodologies, as well as the designing VMS methodology. The next parts of the book present a few important examples: lane departure warning systems; intelligent speed adaptation systems and perception enhancement studies; designs of European pictorial signs, e.g. for VMS but also examples of designs of European road wordings; and finally how personalization can take place of VMS signs and wordings for the individual driver. The last part shows the final evaluation of FOR.

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and SER, and detailed Multiple Criterion Analysis and Cost Benefit Analyses are performed on a number of FOR and SER measures. This results in the development of a set of guidelines, conclusions and recommendations for the future.

Advances in Data and Information Sciences-Mohan L. Kolhe
2020-01-02 This book gathers a collection of high-quality peer-reviewed research papers presented at the 2nd International Conference on Data and Information Sciences (ICDIS 2019), held at Raja Balwant Singh Engineering Technical Campus, Agra, India, on March 29-30, 2019. In chapters written by leading researchers, developers, and practitioner from academia and industry, it covers virtually all aspects of computational sciences and information security, including central topics like artificial intelligence, cloud computing, and big data. Highlighting the latest developments and technical solutions, it will show readers from the computer industry how to capitalize on key advances in next-generation computer and communication technology.

Modern Approaches for Intelligent Information and Database Systems-Andrzej Sieminski 2018-02-23 This book offers a unique blend of reports on both theoretical models and their applications in the area of Intelligent Information and Database Systems. The reports cover a broad range of research topics, including advanced learning techniques, knowledge engineering, Natural Language Processing (NLP), decision support systems, Internet of things (IoT), computer vision, and tools and techniques for Intelligent Information Systems. They are extended versions of papers presented at the ACIIDS 2018 conference (10th Asian Conference on Intelligent Information and Database Systems), which was held in Dong Hoi City, Vietnam on 19-21 March 2018. What all researchers and students of computer science need is a state-of-the-art report on the latest trends in their respective areas of interest. Over the years, researchers have proposed increasingly complex theoretical models, which provide the theoretical basis for numerous applications. The applications, in turn, have a profound influence on virtually every aspect of human activities, while also allowing us to validate the underlying theoretical concepts.

Introduction to International Political Economy-David N. Balaam
2015-07-17 A complete and accessible overview of how

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economics collide in a global context This text surveys the theories, institutions, and relationships that characterize IPE and highlights them in a diverse range of regional and transnational issues. The bestseller in the field, Introduction to International Political Economy positions students to critically evaluate the global economy and to appreciate the personal impact of political, economic, and social forces.

Artificial Intelligence in Education-Ig Ibert Bittencourt 2020-07-04 This two-volume set LNAI 12163 and 12164 constitutes the refereed proceedings of the 21th International Conference on Artificial Intelligence in Education, AIED 2020, held in Ifrane, Morocco, in July 2020.* The 49 full papers presented together with 66 short, 4 industry & innovation, 4 doctoral consortium, and 4 workshop papers were carefully reviewed and selected from 214 submissions. The conference provides opportunities for the cross-fertilization of approaches, techniques and ideas from the many fields that comprise AIED, including computer science, cognitive and learning sciences, education, game design, psychology, sociology, linguistics as well as many domain-specific areas. *The conference was held virtually due to the COVID-19 pandemic.

Advanced Microsystems for Automotive Applications 2003-Jürgen Valldorf 2007-12-22 Microsystems are an important factor that contribute to an automobile model's success. To meet the customer's desire for safety, convenience and vehicle economy, and to satisfy environmental standards, microsystems play a critical factor. Microsystems applications (MST) have already resulted in improved performance and better value for money. But the advances implemented reveal only the beginning of a revolution in the vehicle sector, which aims at a complete transition from the mechanically driven automobile system to a mechanically based but ICT-driven system. The selected contributions from AMAA 2003 treat safety (both preventive and protective), powertrain (online measurement and control of engine and transmission subsystems), comfort and HMI (systems to enhance the comfort of passengers and human machine interface issues), and networked Vehicle (all aspects of intra car systems and ambient communication networks).

Autonomous Driving-Markus Maurer 2016-05-21 This book takes a look at fully automated, autonomous vehicles and discusses many

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open questions: How can autonomous vehicles be integrated into the current transportation system with diverse users and human drivers? Where do automated vehicles fall under current legal frameworks? What risks are associated with automation and how will society respond to these risks? How will the marketplace react to automated vehicles and what changes may be necessary for companies? Experts from Germany and the United States define key societal, engineering, and mobility issues related to the automation of vehicles. They discuss the decisions programmers of automated vehicles must make to enable vehicles to perceive their environment, interact with other road users, and choose actions that may have ethical consequences. The authors further identify expectations and concerns that will form the basis for individual and societal acceptance of autonomous driving. While the safety benefits of such vehicles are tremendous, the authors demonstrate that these benefits will only be achieved if vehicles have an appropriate safety concept at the heart of their design. Realizing the potential of automated vehicles to reorganize traffic and transform mobility of people and goods requires similar care in the design of vehicles and networks. By covering all of these topics, the book aims to provide a current, comprehensive, and scientifically sound treatment of the emerging field of "autonomous driving".

Gasoline-engine management-Robert Bosch GmbH. 1999

Skull Base Surgery of the Posterior Fossa-William T. Couldwell

2017-11-10 This text provides a comprehensive and contemporary overview of surgical approaches to lesions of the posterior fossa. It will serve as a resource for neurosurgeons and otologists who treat patients with tumors and vascular diseases of the posterior fossa. It provides a concise review of surgical strategies that address the most important pathologies affecting the posterior fossa. It is richly illustrated with photographs and illustrations of the surgical strategies covered. All chapters are written by experts with world-wide recognition for their contributions in their respective subspecialty. Skull Base Surgery of the Posterior Fossa will be of great utility to Neurosurgeons, Otolaryngologists, and Radiation Therapists with an interest in diseases that affect the posterior fossa, as well as Senior Residents in Neurosurgery and Otolaryngology, and Fellows of Skull Base Surgery and Otolaryngology.

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Electric and Hybrid Vehicles-Amir Khajepour 2014-03-05 An advanced level introductory book covering fundamental aspects, design and dynamics of electric and hybrid electric vehicles There is significant demand for an understanding of the fundamentals, technologies, and design of electric and hybrid electric vehicles and their components from researchers, engineers, and graduate students. Although there is a good body of work in the literature, there is still a great need for electric and hybrid vehicle teaching materials. Electric and Hybrid Vehicles: Technologies, Modeling and Control - A Mechatronic Approach is based on the authors' current research in vehicle systems and will include chapters on vehicle propulsion systems, the fundamentals of vehicle dynamics, EV and HEV technologies, chassis systems, steering control systems, and state, parameter and force estimations. The book is highly illustrated, and examples will be given throughout the book based on real applications and challenges in the automotive industry. Designed to help a new generation of engineers needing to master the principles of and further advances in hybrid vehicle technology Includes examples of real applications and challenges in the automotive industry with problems and solutions Takes a mechatronics approach to the study of electric and hybrid electric vehicles, appealing to mechanical and electrical engineering interests Responds to the increase in demand of universities offering courses in newer electric vehicle technologies Ford Escort Mk1-Graham Robson

Encyclopedia of Artificial Intelligence-Juan Ramon Rabunal 2009-01-01 "This book is a comprehensive and in-depth reference to the most recent developments in the field covering theoretical developments, techniques, technologies, among others"--Provided by publisher.

Digital Transformation-Reimund Neugebauer 2019-05-14 With the exception of written letters and personal conversations, digital technology forms the basis of nearly every means of communication and information that we use today. It is also used to control the essential elements of economic, scientific, and public and private life: security, production, mobility, media, and healthcare. Without exaggerating it is possible to say that digital technology has become one of the foundations of our technologically oriented civilization.

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The benefits of modern data technology are so impressive and the potential for future applications so enormous that we cannot fail to promote its development if we are to retain our leading role in the competitive international marketplace. In this process, security plays a vital role in each of the areas of application of digital technology — the more technological sectors are entrusted to data systems technology, the more important their reliability becomes to us. Developing digital systems further while simultaneously ensuring that they always act and respond in the best interests of people is a central goal of the technological research and development propagated and conducted by Fraunhofer.

Proceedings of the 2nd Conference on Engine Processes-Sens, Marc 2015-10-30 As the combustion engine looks set to remain the dominant energy conversion unit in vehicle powertrains in the medium term, either in combination with electrical components or on its own, attention will need to be paid to continue improving its efficiency in the future. The high development depth of today's combustion engines means that it is becoming increasingly difficult to achieve significant efficiency improvements by simple means. On the search for these improvements, the focus has shifted to inner-engine processes, for instance charge cycles including the charging system, the mixture formation including injection, combustion and kinematic conversion of the energy within the fuel. Our 2nd conference 'Engine processes' aims to offer all developers a platform to discuss the latest technological developments in the field of inner-engine process control, and encourage new paths to be taken. We believe that the program for this conference is a sound foundation for this endeavour. Da der Verbrennungsmotor auch mittelfristig die dominierende Energiewandlungseinheit im Antriebsstrang von Kraftfahrzeugen sein wird, entweder im Verbund mit elektrischen Komponenten oder aber als alleiniger Antrieb, muss der Verbesserung von dessen Wirkungsgrad auch in Zukunft erhebliche Aufmerksamkeit zu Teil werden. Aufgrund der hohen Entwicklungstiefe, die heutige Verbrennungsmotoren aufweisen, wird es immer schwerer, deutliche Wirkungsgradverbesserungen auf einfachem Weg zu erreichen. Auf der Suche nach diesen Verbesserungen rücken die innermotorischen Prozesse immer mehr in den Fokus, hierzu zählen

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der Ladungswechsel inkl. Aufladesystem, die Gemischbildung inkl. Einspritzung, die Verbrennung sowie die kinematische Wandlung der im Kraftstoff gebundenen Energie. Unsere 2. Tagung „Motorische Prozesse“ soll nun allen Entwicklern als Austauschforum zu neuesten technologischen Entwicklungen auf dem Gebiet der innermotorischen Prozessführung dienen und dazu anregen neue Wege zu beschreiten. Wir sind überzeugt, mit dem vorliegenden Tagungs-Programm hierzu einen sehr guten Beitrag leisten zu können.

Keyhole Approaches in Neurosurgery-Axel Perneckzy 2009-12-18
Technological progress in neurosurgery - preoperative investigation of the exact anatomy of the patient, detailed planning of the procedure, and use of endoscopes and videosurgery - have made approaches for intracranial microsurgical procedures smaller compared to historically standard neurosurgical approaches. Building on the previous works "Endoscopic Anatomy for Neurosurgery" and "Keyhole Concept in Neurosurgery," this book offers a systematic overview of keyhole approaches in the daily work of a neurosurgeon. The approaches, strategies, indications and technical details described here are complemented by anatomical pictures, schemes, and artists' illustrations, and analyzed with regard to geometric boundaries and the topography of the target structures.

5G-Enabled Internet of Things-Yulei Wu 2019-05-29
How the enabling technologies in 5G as an integral or as a part can seamlessly fuel the IoT revolution is still very challenging. This book presents the state-of-the-art solutions to the theoretical and practical challenges stemming from the integration of 5G enabling technologies into IoTs in support of a smart 5G-enabled IoT paradigm, in terms of network design, operation, management, optimization, privacy and security, and applications. In particular, the technical focus covers a comprehensive understanding of 5G-enabled IoT architectures, converged access networks, privacy and security, and emerging applications of 5G-enabled IoT.

The Engineering of Sport-Steve Haake 1996-01-01
Science and technology has been used more and more in the last few decades to gain advantage over competitors. Quite often, however, the actual science involved is not published because a suitable journal cannot

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be found. The Engineering of Sport brings together work from a very diverse range of subjects including Engineering, Physics, Materials and Biomechanics. The Engineering of Sport represent work which was represented at the 1st International Conference on the Engineering of Sport held in Sheffield, UK in July 1996. Many sports were represented and the material covered split into nine topics covering aerodynamics, biomechanics, design, dynamics, instrumentation, materials, mechanics, modelling, motion analysis, and vibrations. It should be of interest to specialists in all areas of sports research.

The Story Of Versailles-Yard And Company Moffat 2019-03-13 This work has been selected by scholars as being culturally important, and is part of the knowledge base of civilization as we know it. This work was reproduced from the original artifact, and remains as true to the original work as possible. Therefore, you will see the original copyright references, library stamps (as most of these works have been housed in our most important libraries around the world), and other notations in the work. This work is in the public domain in the United States of America, and possibly other nations. Within the United States, you may freely copy and distribute this work, as no entity (individual or corporate) has a copyright on the body of the work. As a reproduction of a historical artifact, this work may contain missing or blurred pages, poor pictures, errant marks, etc. Scholars believe, and we concur, that this work is important enough to be preserved, reproduced, and made generally available to the public. We appreciate your support of the preservation process, and thank you for being an important part of keeping this knowledge alive and relevant.

Advances in Production Management Systems. The Path to Intelligent, Collaborative and Sustainable Manufacturing-Hermann Lödding 2017-08-29 The two-volume set IFIP AICT 513 and 514 constitutes the refereed proceedings of the International IFIP WG 5.7 Conference on Advances in Production Management Systems, APMS 2017, held in Hamburg, Germany, in September 2017. The 121 revised full papers presented were carefully reviewed and selected from 163 submissions. They are organized in the following topical sections: smart manufacturing system characterization; product and asset life cycle management in smart factories of

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industry 4.0; cyber-physical (IIoT) technology deployments in smart manufacturing systems; multi-disciplinary collaboration in the development of smart product-service solutions; sustainable human integration in cyber-physical systems: the operator 4.0; intelligent diagnostics and maintenance solutions; operations planning, scheduling and control; supply chain design; production management in food supply chains; factory planning; industrial and other services; operations management in engineer-to-order manufacturing; gamification of complex systems design development; lean and green manufacturing; and eco-efficiency in manufacturing operations.

India's National Security-Satish Kumar 2017-11-22 The global security environment in the last five years has been characterised by a state of 'no war, no peace' among major powers, resulting in a state of uncertainty about their national security objectives. For instance, the US has been concerned about the attitudes of Iran, Russia, North Korea, China, and others, and yet did not expect a direct military conflict with them. On the other hand, China has expanded its naval strategy from a mere 'off-shore defence' to 'open seas protection' and has called for both 'defence and offence' instead of merely 'territorial air defence', thereby indicating preparedness for the possibility of a military confrontation. The major powers have been thus groping for suitable responses to their threat perceptions. It is in this kind of a complex and confusing international environment that India, as a rising power, has been called upon to wade through its strategic partnerships with major powers and nurture friendships with various Asian and African countries. This sixteenth volume of India's National Security Annual Review offers indispensable information and evaluation on matters pertaining to national security. It undertakes a thorough analysis of the trends to provide a backdrop to India's engagement with various countries. The volume also discusses persisting threats from China and Pakistan. With contributions from experts from the fields of diplomacy, academia, and civil and military services, the book will be one of the most dependable sources of analyses for scholars of international relations, foreign policy, defence and strategic studies, and political science, and practitioners alike.

Data Analytics for Intelligent Transportation Systems-Mashur

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Chowdhury 2017-04-05 Data Analytics for Intelligent Transportation Systems provides in-depth coverage of data-enabled methods for analyzing intelligent transportation systems that includes detailed coverage of the tools needed to implement these methods using big data analytics and other computing techniques. The book examines the major characteristics of connected transportation systems, along with the fundamental concepts of how to analyze the data they produce. It explores collecting, archiving, processing, and distributing the data, designing data infrastructures, data management and delivery systems, and the required hardware and software technologies. Users will learn how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications, along with key safety and environmental applications for both commercial and passenger vehicles, data privacy and security issues, and the role of social media data in traffic planning. Includes case studies in each chapter that illustrate the application of concepts covered Presents extensive coverage of existing and forthcoming intelligent transportation systems and data analytics technologies Contains contributors from both leading academic and commercial researchers Explains how to design effective data visualizations, tactics on the planning process, and how to evaluate alternative data analytics for different connected transportation applications

Improving the Airport Customer Experience-Bruce J. Boudreau 2016 "TRB's Airport Cooperative Research Program (ACRP) Report 157: Improving the Airport Customer Experience documents notable and emerging practices in airport customer service management that increase customer satisfaction, recognizing the different types of customers (such as passengers, meeters and greeters, and employees) and types and sizes of airports. It also identifies potential improvements that airports could make for their customers." -- Publisher's description

The Human Auditory System-Gastone G. Celesia 2015-03-06 The Human Auditory System: Fundamental Organization and Clinical Disorders provides a comprehensive and focused reference on the neuroscience of hearing and the associated neurological diagnosis and treatment of auditory disorders. This reference looks at this

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dynamic area of basic research, a multidisciplinary endeavor with contributions from neuroscience, clinical neurology, cognitive neuroscience, cognitive science communications disorders, and psychology, and its dramatic clinical application. A focused reference on the neuroscience of hearing and clinical disorders Covers both basic brain science, key methodologies and clinical diagnosis and treatment of audiology disorders Coverage of audiology across the lifespan from birth to elderly topics Canceled DOD appropriations improvements made but more corrective actions are needed.-

Children with Disabilities-Mark L. Batshaw 2002 Written for developmental pediatricians, this introductory text brings a multidisciplinary focus to the study of developmental, clinical, educational, family, and intervention issues. It explores the beginning of life from conception through childhood, identifying factors in each stage that can cause disability. Case studies illustrate key concepts. Appendices provide information on medications, resources, syndromes, and inborn errors of metabolism; a glossary defines key terms. Contributors include doctors with various specialties and experts in related fields. Annotation copyrighted by Book News, Inc., Portland, OR.

Caring for your car's bodywork and interior-Simon Nixon 2012 With this book, you can begin caring for your car like a professional, achieving dramatic and financially beneficial effects almost immediately. It teaches you the importance of using specific products for specific tasks, how to properly clean wheels, paint decontamination, polishing paintwork, waxing, interior maintenance, leather care, using a clay bar and much, much more. The step-by-step guides explain the purpose and importance of each process in a straightforward manner, and will help you carry out more complicated procedures - such as cleaning the engine bay - without causing any damage. With helpful illustrations and advice based on the author's many years' of valeting experience, this book will get your car looking great.

Arthroscopy and Sport Injuries-Piero Volpi 2016-01-01 This book describes the current applications of arthroscopy in a very wide range of sports injuries involving, among other sites, the hip, knee, ankle, shoulder, elbow, and wrist. For each condition, mechanisms

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of injury are explained and the role of arthroscopy in diagnosis and treatment is described. Relevant information is also provided on the epidemiology and mechanisms of injury in specific sports and on indications for treatment and rehabilitation. The book fully reflects the recent advances that have taken place in arthroscopy, permitting more accurate assessment and more successful management of post-traumatic pathologies. Furthermore, it acknowledges that as a result of the increasing use of new technologies and biomaterials, there is now particular interest in techniques that promote biological healing of articular lesions and permit complete functional recovery. The authors are leading specialists in the field who have aimed to provide practitioners with the clear guidance that they require on the evaluation and treatment of injuries incurred during sporting activity.

Basic and applied research on deception and its detection-Wolfgang Ambach 2014-08-07 Deception is a ubiquitous phenomenon in social interactions and has attracted a significant amount of research during the last decades. The majority of studies in this field focused on how deception modulates behavioral, autonomic, and brain responses and whether these changes can be used to validly identify lies. Especially the latter question, which historically gave rise to the development of psychophysiological “lie detection” techniques, has been driving research on deception and its detection until today. The detection of deception and concealed information in forensic examinations currently constitutes one of the most frequent applications of psychophysiological methods in the field. With the increasing use of such methods, the techniques for detecting deception have been controversially discussed in the scientific community. It has been proposed to shift from the original idea of detecting deception per se to a more indirect approach that allows for determining whether a suspect has specific knowledge of crime-related details. This so-called Concealed Information Test is strongly linked to basic psychological concepts concerning memory, attention, orienting, and response monitoring. Although research in this field has intensified with the advancement of neuroimaging techniques such as PET and fMRI in the last decade, basic questions on the psychological mechanisms underlying modulatory effects of deception and information concealment on behavioral, autonomic

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and brain responses are still poorly understood. This Research Topic brings together contributions from researchers in experimental psychology, psychophysiology, and neuroscience focusing on the understanding of the broad concept of deception including the detection of concealed information, with respect to basic research questions as well as applied issues. This Research Topic is mainly composed of original research articles but reviews and papers elaborating on novel methodological approaches have also been included. Experimental methods include, but are not limited to, behavioral, autonomic, electroencephalographic or brain imaging techniques that allow for revealing relevant facets of deception on a multimodal level. While this Research Topic primarily includes laboratory work, relevant issues for the field use of such methods are also discussed.

Automobile Electrical and Electronic Systems-Tom Denton 2017-09-12 This textbook will help you learn all the skills you need to pass all Vehicle Electrical and Electronic Systems courses and qualifications. As electrical and electronic systems become increasingly more complex and fundamental to the workings of modern vehicles, understanding these systems is essential for automotive technicians. For students new to the subject, this book will help to develop this knowledge, but will also assist experienced technicians in keeping up with recent technological advances. This new edition includes information on developments in pass-through technology, multiplexing, and engine control systems. In full colour and covering the latest course specifications, this is the guide that no student enrolled on an automotive maintenance and repair course should be without. Designed to make learning easier, this book contains: Photographs, flow charts, quick reference tables, overview descriptions and step-by-step instructions. Case studies to help you put the principles covered into a real-life context. Useful margin features throughout, including definitions, key facts and 'safety first' considerations.

Special Course on Acoustic Wave Propagation- 1979
Head First Servlets and JSP-Bryan Basham 2008-03-25 This book gets readers up to speed on the technology necessary to write servlets and JSPs, what makes the Container tick, how to use the new JSP Expression Language (EL), how to write deployment

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descriptors, and even how to use some server-side design patterns. The Cambridge Handbook of Information and Computer Ethics- Luciano Floridi 2010-04-15 Information and Communication Technologies (ICTs) have profoundly changed many aspects of life, including the nature of entertainment, work, communication, education, healthcare, industrial production and business, social relations and conflicts. They have had a radical and widespread impact on our moral lives and hence on contemporary ethical debates. The Cambridge Handbook of Information and Computer Ethics, first published in 2010, provides an ambitious and authoritative introduction to the field, with discussions of a range of topics including privacy, ownership, freedom of speech, responsibility, technological determinism, the digital divide, cyber warfare, and online pornography. It offers an accessible and thoughtful survey of the transformations brought about by ICTs and their implications for the future of human life and society, for the evaluation of behaviour, and for the evolution of moral values and rights. It will be a valuable book for all who are interested in the ethical aspects of the information society in which we live.

Mobile Web and Intelligent Information Systems-Muhammad Younas 2017-08-04 This book constitutes the refereed proceedings of the 14th International Conference on Mobile Web and Intelligent Information Systems, MobiWIS 2017, held in Prague, Czech Republic, in August 2017. The 23 full papers together with 4 short papers presented in this volume were carefully reviewed and selected from 77 submissions. The call for papers of the MobiWis 2017 included new and emerging areas such as: mobile web systems, recommender systems, security and authentication, context-awareness, mobile web and advanced applications, cloud and IoT, mobility management, mobile and wireless networks, and mobile web practice and experience.

Ideology-Teun A Van Dijk 1998-02-05 The definition of ideology continues to occupy scholars across a wide range of disciplines. In this book, Teun A van Dijk sketches a challenging new multidisciplinary framework for theorizing ideology. He defines ideology as the basis of the social representations of a group, its functions in terms of social relations between groups, and its reproduction as enacted by discourse. Contemporary

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discourse is examined to illustrate these ideological relations between cognition, society and discourse.

The BMW 5 Series and X5-Marc Cranswick 2014-01-10 BMW is a company associated with motoring firsts. The very idea of a sports sedan was merely a novelty until BMW introduced the 5 series in 1972. As BMW's "middle child," the 5 series has drawn features from the company's smallest and largest models, establishing a reputation for performance and practicality through multiple generations. This book covers the history of the 5 series midsize sedan and the related X5 SUV from September 1972 to the e60's major makeover for 2008 and the development of the e70 X5. Specific mechanical, electronic and cosmetic changes are described, including the time of and reasons for their introduction. Several aspects of BMW's corporate history and technically related models such as the 6-series are also described, as are aftermarket modifications by Alpina, Hartge, and other specialist BMW tuners and speed shops. The book includes more than 200 photographs.

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