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Vehicle Technology 創作同人電子書籍のススメ iPad miniマスターブック 2015 iPad mini 3・iPad mini 2・iPad mini対応 Autonomous Road Vehicle Path Planning and Tracking Control Towards Human-Vehicle Harmonization Hybrid Electric Vehicle System Modeling and Control Formation Control of Multiple Autonomous Vehicle Systems Vehicle Battery Fires Fundamentals of Vehicle Dynamics and Modelling Thermal Management of Electric Vehicle Battery Systems Computer Vision in Vehicle Technology The Repair of Vehicle Bodies docomo iPhone 5 [S][C] マスターブック 2014 SoftBank iPhone 5 [S][C] マスターブック 2014 au iPhone 5 [S][C] マスターブック 2014 Applied Deep Learning and Computer Vision for Self-Driving Cars Unmanned Aerial Vehicles Vehicle Gearbox Noise and Vibration Stryker Combat Vehicles Hands-On Vision and Behavior for Self-Driving Cars Special Operations Patrol Vehicles BMP Infantry Fighting Vehicle 1967–94 British Sports Cars of the 1950s and ’60s Security in Autonomous Driving American Civil War Railroad Tactics Cool Cars Smokin' Sports Cars Smokin' Muscle Cars Smokin' Race Cars Smokin' Open-Wheel Race Cars Smokin' Dragsters and Funny Cars Stolen Cars Streetcars and the Shifting Geographies of Toronto Vehicles, Drivers, and Safety Muscle Cars Driverless Cars, Urban Parking and Land Use Triumph Sports Cars Building Secure Cars Heavy Vehicle Event Data Recorder Interpretation Vehicle Scanning Method for Bridges

Vehicle Technology

2020-06-08

the motor vehicle technology covered in this book has become in the more than 125 years of its history in many aspects an extremely complex and in many areas of engineering science motor vehicles must remain functional under harsh environmental conditions and extreme continuous loads and must also be reliably brought into a safe state even in the event of a failure by a few trained operators the automobile is at the same time a mass product which must be produced in millions of pieces and at extremely low cost in addition to the fundamentals of current vehicle systems the book also provides an overview of future developments such as for example in the areas of electromobility alternative drives and driver assistance systems the basis for the book is a series of lectures on automotive engineering which has been offered by the first named author at the university of duisburg essen for many years starting from classical systems in the automobile the reader is given a systemic view of modern motor vehicles in addition to the pure basic function the modeling of individual sub systems is also discussed this gives the reader a deep understanding of the underlying principles in addition the book with the given models provides a basis for the practical application in the area of simulation technology and thus achieves a clear added value against books which merely explain the function of a system without entering into the modeling on the basis of today s vehicle systems we will continue to look at current and future systems in addition to the state of the art the reader is thus taught which topics are currently dominant in research and which developments can be expected for the future in particular a large number of practical examples are provided directly from the vehicle industry especially for students of vehicle oriented study courses and lectures the book thus enables an optimal preparation for possible future fields of activity

創作同人電子書籍のススメ

2020-05-17

全年齢向けフルカラー漫画11店の電子配信ストアを縦断紹介します2020年の新型コロナで大人数が集まる会場のイベントが次々と中止に しかし そんな中でも本を売れる 本が買えるのが 電子配信 主に創作同人のマンガの電子配信に使えるストアがあります 作者はこの本を含め100作以上の作品を現在11のストアで電子配信中 それらのストアを電子書籍ストア擬人化キャラたちとともに紹介解説 電子書籍自主配信のハウツーを解説する漫画読本2020年5月エアコミティアにて まるちぷるcafeより発行の自費出版誌 紙 電子同時発行作品2022年2月に誤字脱字修正を加えた第２版を登録

iPad miniマスターブック 2015 iPad mini 3・iPad mini 2・iPad

mini対応

2015-01-27

この商品はタブレットなど大きいディスプレイを備えた端末で読むことに適しています また 文字だけを拡大することや 文字列のハイライト 検索 辞書の参照 引用などの機能が使用できません ipad miniの基本操作から便利なテクニックまで知りたいことが見つかる ipad mini 3 ipad mini 2 ipad miniに対応した入門書です セットアップから文字入力 メール 電子書籍や映画の視聴まで 初歩の使い方から一歩進んだ活用法まで解説しています 指紋認証にも対応して いっそう使いやすいなったipad mini プライベートでもビジネスでも ipad miniをフルに楽しみたいユーザーにおすすめしたい一冊です contents chapter1 ipadの基本操作 chapter2 ipad miniを使うための準備を行う chapter3 アプリの基本 chapter4 文字を入力する chapter5 webサイトを見る chapter6 メールやメッセージを使う chapter7 ipadで読書する chapter8 ipadで書類を扱う chapter9 写真を楽しむ chapter10 ムービーや音楽を楽しむ chapter11 標準アプリで情報を整理 chapter12 ipadで生活を楽しむ

Autonomous Road Vehicle Path Planning and Tracking Control

2021-12-06

discover the latest research in path planning and robust path tracking control in autonomous road vehicle path planning and tracking control a team of distinguished

researchers delivers a practical and insightful exploration of how to design robust path tracking control the authors include easy to understand concepts that are immediately applicable to the work of practicing control engineers and graduate students working in autonomous driving applications controller parameters are presented graphically and regions of guaranteed performance are simple to visualize and understand the book discusses the limits of performance as well as hardware in the loop simulation and experimental results that are implementable in real time concepts of collision and avoidance are explained within the same framework and a strong focus on the robustness of the introduced tracking controllers is maintained throughout in addition to a continuous treatment of complex planning and control in one relevant application the autonomous road vehicle path planning and tracking control includes a thorough introduction to path planning and robust path tracking control for autonomous road vehicles as well as a literature review with key papers and recent developments in the area comprehensive explorations of vehicle path and path tracking models model in the loop simulation models and hardware in the loop models practical discussions of path generation and path modeling available in current literature in depth examinations of collision free path planning and collision avoidance perfect for advanced undergraduate and graduate students with an interest in autonomous vehicles autonomous road vehicle path planning and tracking control is also an indispensable reference for practicing engineers working in autonomous driving technologies and the mobility groups and sections of automotive oems

Towards Human-Vehicle Harmonization

2023-03-20

this book features works from world class experts from academia industry and national agencies from across the world focusing on a wide spectrum of automotive fields covering in vehicle signal processing driver modeling systems and safety the essays collected in this volume present cutting edge studies on safety driver behavior infrastructure and human to vehicle interfaces

Hybrid Electric Vehicle System Modeling and Control

2017-01-25

this new edition includes approximately 30 new materials covering the following information that has been added to this important work extends the contents on li ion batteries detailing the positive and negative electrodes and characteristics and other components including binder electrolyte separator and foils and the structure of li ion battery cell nickel cadmium batteries are deleted adds a new section presenting the modelling of multi mode electrically variable transmission which gradually became the main structure of the hybrid power train during the last 5 years newly added chapter on noise and vibration of hybrid vehicles introduces the basics of vibration and noise issues associated with power train driveline and vehicle vibrations and addresses control solutions to reduce the noise and vibration levels chapter 10 chapter 9 of the first edition is extended by presenting epa and un newly required test drive schedules and test procedures for hybrid electric mileage calculation for window sticker considerations in addition to the above major changes in this second edition adaptive charging sustaining point determination method is presented to have a plug in hybrid electric vehicle with optimum performance

Formation Control of Multiple Autonomous Vehicle Systems

2018-10-08

this text explores formation control of vehicle systems and introduces three representative systems space systems aerial systems and robotic systems formation control of multiple autonomous vehicle systems offers a review of the core concepts of dynamics and control and examines the dynamics and control aspects of formation control in order to study a wide spectrum of dynamic vehicle systems such as spacecraft unmanned aerial vehicles and robots the text puts the focus on formation control that enables and stabilizes formation configuration as well as formation reconfiguration of these vehicle systems the authors develop a uniform paradigm of describing vehicle systems dynamic behaviour that addresses both individual vehicle s motion and overall group s movement as well as interactions between vehicles the authors explain how the design of proper control techniques regulate the formation motion of these vehicles and the development of a system level decision making strategy that increases the level of autonomy for the entire group of vehicles to carry out their missions the text is filled with illustrative case studies in the domains of space aerial and robotics contains uniform coverage of formation dynamic systems development presents representative case studies in selected applications in the space aerial and robotic systems domains introduces an experimental platform of using laboratory three degree of freedom helicopters with step by step instructions as an example provides open source example models and simulation codes includes notes and further readings that offer details on relevant research topics recent progress and further developments in the field written for researchers and academics in robotics and unmanned systems looking at motion synchronization and formation problems formation control of multiple autonomous vehicle systems is a vital resource that explores the motion synchronization and formation control of vehicle systems as represented by three representative systems space systems aerial systems and robotic systems

Vehicle Battery Fires

2017-01-15

battery fires why they happen and how they happen was written to assist those interested in this type of incident understand how automotive fires develop spread and the damage they cause using both deductive and inductive reasoning the main focus of the book resides in looking at differences in failure modes between dc and ac systems general types of battery and electrical failure modes leading to fire how to interpret electrical fire determination of the primary failed part and other skills the investigating engineer will require to perform technical failure mode analysis however some fires have consumed the evidence to the point where a determination cannot be made with any degree of certainty in this instance evidence will be quite limited and the analysis will have its limitations and should be included in the discussion as such in some cases a cause undetermined report is all the evidence will support battery fires why they happen and how they happen is a unique title which brings together the theory and the practice of correctly evaluating the root causes of unexpected and dangerous automobile fires

Fundamentals of Vehicle Dynamics and Modelling

2019-08-14

an introduction to vehicle dynamics and the fundamentals of mathematical modeling fundamentals of vehicle dynamics and modeling is a student focused textbook providing an introduction to vehicle dynamics and covers the fundamentals of vehicle model development it illustrates the process for construction of a mathematical model through the application of the equations of motion the text describes techniques for solution of the model and demonstrates how to conduct an analysis and interpret the results a significant portion of the book is devoted to the classical linear dynamic models and provides a foundation for understanding and predicting vehicle behaviour as a consequence of the design parameters modeling the pneumatic tire is also covered along with methods for solving the suspension kinematics problem and prediction of acceleration and braking performance the book introduces the concept of multibody dynamics as applied to vehicles and provides insight into how large and high fidelity models can be constructed it includes the development of a method suitable for computer implementation which can automatically generate and solve the linear equations of motion for large complex models key features accompanied by a website hosting matlab code supported by the global education delivery channels fundamentals of vehicle dynamics and modeling is an ideal textbook for senior undergraduate and graduate courses on vehicle dynamics

Thermal Management of Electric Vehicle Battery Systems

2017-01-03

thermal management of electric vehicle battery systems provides a thorough examination of various conventional and cutting edge electric vehicle ev battery thermal management systems including phase change material that are currently used in the industry as well as being proposed for future ev batteries it covers how to select the right thermal management design configuration and parameters for the users battery chemistry applications and operating conditions and provides guidance on the setup instrumentation and operation of their thermal management systems tms in the most efficient and effective manner this book provides the reader with the necessary information to develop a capable battery tms that can keep the cells operating within the ideal operating temperature ranges and uniformities while minimizing the associated energy consumption cost and environmental impact the procedures used are explained step by step and generic and widely used parameters are utilized as much as possible to enable the reader to incorporate the conducted analyses to the systems they are working on also included are comprehensive thermodynamic modelling and analyses of tmss as well as databanks of component costs and environmental impacts which can be useful for providing new ideas on improving vehicle designs key features discusses traditional and cutting edge technologies as well as research directions covers thermal management systems and their selection for different vehicles and applications includes case studies and practical examples from the industry covers thermodynamic analyses and assessment methods including those based on energy and exergy as well as exergoeconomic exergoenvironmental and enviroeconomic techniques accompanied by a website hosting codes models and economic and environmental databases as well as various related information thermal management of electric vehicle battery systems is a unique book on electric vehicle thermal management systems for researchers and practitioners in industry and is also a suitable textbook for senior level undergraduate and graduate courses

Computer Vision in Vehicle Technology

2017-04-17

a unified view of the use of computer vision technology for different types of vehicles computer vision in vehicle technology focuses on computer vision as on board technology bringing together fields of research where computer vision is progressively penetrating the automotive sector unmanned aerial and underwater vehicles it also serves as a reference for researchers of current developments and challenges in areas of the application of computer vision involving vehicles such as advanced driver assistance pedestrian detection lane departure warning traffic sign recognition autonomous driving and robot navigation with visual simultaneous localization and mapping or unmanned aerial vehicles obstacle avoidance landscape classification and mapping fire risk assessment the overall role of computer vision for the navigation of different vehicles as well as technology to address on board applications is analysed key features presents the latest advances in the field of computer vision and vehicle technologies in a highly informative and understandable way including the basic mathematics for each problem provides a comprehensive summary of the state of the art computer vision techniques in vehicles from the navigation and the addressable applications points of view offers a detailed description of the open challenges and business opportunities for the immediate future in the field of vision based vehicle technologies this is essential reading for computer vision researchers as well as engineers working in vehicle technologies and students of computer vision

The Repair of Vehicle Bodies

2018-10-03

the revised and updated seventh edition of this best selling reference manual on vehicle body repair brings the book up to date for the current body repair trade it serves as a comprehensive guide covering the vocationally related qualification vrq required by the modern student and apprentice as well as providing the cpd essential for all working professionals the entire book is overhauled to reflect current industry trends with regards to materials processes and procedures new additions include an entirely new section on the work of the met technician mechanical electrical and trim new developments in body repair methodology such as repair pods and the greater use of alignment equipment greater emphasis on the environment with new sections on hybrid vehicles and the hazards of starting current vehicles with high levels of technology details on both the historic and the current joining methods for the vintage and modern markets full coverage on the legalities surrounding insurance work for bodyshop staff updated tables and illustrations this book not only provides the knowledge and skills for body repair it helps to develop a real understanding of the how and why behind this information it will be essential for anyone studying levels 1 3 vehicle body repair vehicle refinishing and met courses including the new apprenticeships and technical certificates from the imi pearson btec and c g hnc and degree automotive engineering students will find the text valuable to develop skills and knowledge for practical project work industry professionals vehicle restorers and car diy enthusiasts will continue to find it an essential and comprehensive source of information

docomo iPhone 5 [S][C] マスターブック 2014

2013-10-31

この商品はタブレットなど大きいディスプレイを備えた端末で読むことに適しています また 文字だけを拡大することや 文字列のハイライト 検索 辞書の参照 引用などの機能が使用できません nttドコモのiphone 5s 5cをフルに活用するためのガイドブックです ios 7になってインターフェイスががらりと変わったiphoneですが 基本操作をはじめ 購入後にチェックしておきたい設定 各種アプリの使い方などを初歩から解説しました 指紋認証センサー コントロールセンター マルチタスキングといった新機能や強化機能についてもしっかり網羅しています 特に携帯電話 フィーチャーフォン やandroidスマートフォンから移行したユーザーの場合 電話帳の移行 spモードメール docomo wi fi 留守番電話サービスなどの使い方が気になるところでしょう 本書は移行ユーザーが戸惑いがちなnttドコモの独自サービスについても 丁寧に説明しました ドコモ版iphone 5s 5cの多彩な機能がこれ一冊でマスターできる内容になっています

SoftBank iPhone 5 [S][C] マスターブック 2014

2013-11-13

ソフトバンク softbank のiphone 5s 5c をフルに活用するためのガイドブックです ios 7になってインターフェイスが大きく変わったiphoneですが 本書は基本操作をはじめ 購入後にチェックしておきたい設定 各種アプリの使い方などを初歩から解説しています 指紋認証センサー コントロールセンター マルチタスキングといった新機能や強化機能についてもしっかり網羅しました 特に携帯電話 フィーチャーフォン やandroidスマートフォンから移行したユーザーの場合 電話帳の移行 各種メールやメッセージの登録 ソフトバンクwi fiスポット 留守番電話サービスなどの使い方が気になるところでしょう 本書はユーザーが戸惑いがちなソフトバンクの独自サービスについても丁寧に説明しました ソフトバンク版iphone 5s 5c の多彩な機能がこれ一冊でマスターできる内容になっています contents chapter 1 iphoneの基本操作 chapter 2 iphoneを使う準備をする chapter 3 文字を入力する chapter 4 アプリの基本 chapter 5 iphoneの電話操作 chapter 6 連絡先を使う chapter 7 メールとメッセージを使う chapter 8 webサイトを見る chapter 9 カメラで撮影する chapter 10 ムービーを楽しむ chapter 11 地図を利用する chapter 12 カレンダー メモ リマインダーを使いこなす chapter 13 音楽を楽しもう chapter 14 snsサービスを使う chapter 15 iphoneで生活を楽しむ

au iPhone 5 [S][C] マスターブック 2014

2013-11-13

この商品はタブレットなど大きいディスプレイを備えた端末で読むことに適しています また 文字だけを拡大することや 文字列のハイライト 検索 辞書の参照 引用などの機能が使用できません au kddi のiphone 5s 5cをフルに活用するためのガイドブックです ios 7になってインターフェイスが大きく変わったiphoneですが 本書は基本操作をはじめ 購入後にチェックしておきたい設定 各種アプリの使い方などを初歩から解説しています 指紋認証センサー コントロールセンター マルチタスキングといった新機能や強化機能についてもしっかり網羅しました 特に携帯電話 フィーチャーフォン やandroidスマートフォンから移行したユーザーの場合 各種メールやメッセージの登録方法 au wi fi spotや留守番電話サービスなどの使い方が気になるところでしょう 本書はユーザーが戸惑いがちなauの独自サービスについても丁寧に説明しました au版iphone 5s 5cの多彩な機能がこれ一冊でマスターできる内容になっています contents chapter1 iphoneの基本操作 chapter2 iphoneを使う準備をする chapter3 文字を入力する chapter4 アプリの基本 chapter5 iphoneの電話操作 chapter6 連絡先を使う chapter7 メールとメッセージを使う chapter8 webサイトを見る chapter9 カメラで撮影する chapter10 ムービーを楽しむ chapter11 地図を利用する chapter12 カレンダー メモ リマインダーを使いこなす chapter13 音楽を楽しもう chapter14 snsサービスを使う chapter15 iphoneで生活を楽しむ

Applied Deep Learning and Computer Vision for Self-Driving Cars

2020-08-14

explore self driving car technology using deep learning and artificial intelligence techniques and libraries such as tensorflow keras and opencv key featuresbuild and train powerful neural network models to build an autonomous carimplement computer vision deep learning and ai techniques to create automotive algorithmsovercome the challenges faced while automating different aspects of driving using modern python libraries and architecturesbook description thanks to a number of recent breakthroughs self driving car technology is now an emerging subject in the field of artificial intelligence and has shifted data scientists focus to building autonomous cars that will transform the automotive industry this book is a comprehensive guide to use deep learning and computer vision techniques to develop autonomous cars starting with the basics of self driving cars sdcs this book will take you through the deep neural network techniques required to get up and running with building your autonomous vehicle once you are comfortable with the basics you ll delve into advanced computer vision techniques and learn how to use deep learning methods to perform a variety of computer vision tasks such as finding lane lines improving image classification and so on you will explore the basic structure and working of a semantic segmentation model and get to grips with detecting cars using semantic segmentation the book also covers advanced applications such as behavior cloning and vehicle detection using opencv transfer learning and deep learning methodologies to train sdcs to mimic human driving by the end of this book you ll have learned how to implement a variety of neural networks to develop your own autonomous vehicle using modern python libraries what you will learnimplement deep neural network from scratch using the keras libraryunderstand the importance of deep learning in self driving carsget to grips with feature extraction techniques in image processing using the opencv librarydesign a software pipeline that detects lane lines in videosimplement a convolutional neural network cnn image classifier for traffic signal signstrain and test neural networks for behavioral cloning by driving a car in a virtual simulatordiscover various state of the art semantic segmentation and object detection architectureswho this book is for if you are a deep learning engineer ai researcher or anyone looking to implement deep learning and computer vision techniques to build self driving blueprint solutions this book is for you anyone who wants to learn how various automotive related algorithms are built will also find this book useful python programming experience along with a basic understanding of deep learning is necessary to get the most of this book

Unmanned Aerial Vehicles

2011-07-20

unmanned aerial vehicles uavs are the most dynamic field of aerospace technology and have only emerged from the shadows recently despite having been in use for decades after some limited use in world war ii uavs emerged as substitutes for manned reconnaissance aircraft in missions deemed too dangerous to risk an aircrew this book examines the development of uav technology and speculates on its future potential packed with rare recently declassified photographs and detailed full colour cutaways this title goes on to investigate the deployment of uavs from early israeli airforce use to their current role over iraq and afghanistan today

Vehicle Gearbox Noise and Vibration

2014-02-20

advances in methods of gear design and the possibility ofpredicting the sound pressure level and life time of gearboxes andperfect instrumentation of test stands allows for the production ofa new generation of quiet transmission units current literature ongearbox noise and vibration is usually focused on a particularproblem such as gearbox design without a detailed description ofmeasurement methods for noise and vibration testing vehicle gearbox noise and vibration measurement signalanalysis signal processing and noise reduction measuresaddresses this need and comprehensively covers the sources of noiseand vibration in gearboxes and describes various methods of signalprocessing it also covers gearing design precision manufacturing measuring the gear train transmission error noise test on testingstands and also during vehicle pass by tests the analysis tools for gearbox inspection are based on thefrequency and time domain methods including envelope and averagetoothmesh analysis to keep the radiated noise under control theeffect of load the gear contact ratio and the tooth surfacemodification on noise and vibration are illustrated by measurementexamples giving an idea how to reduce transmission noise key features covers methods of processing noise and vibration signals takes a practical approach to the subject and includes a casestudy covering how to successfully reduce transmission noise describes the procedure for the measurement and calculation ofthe angular vibrations of gears during rotation considers various signal processing methods including order analysis synchronous averaging vold kalman order trackingfiltration and measuring the angular vibration vehicle gearbox noise and vibration measurement signalanalysis signal processing and noise reduction measures is acomprehensive reference for designers of gearing systems and testengineers in the automotive industry and is also a useful source ofinformation for graduate students in automotive and noiseengineering

Stryker Combat Vehicles

2012-09-20

the eight wheeled 8x8 stryker combat light armored vehicle was adopted by the us army in 2002 to provide a comparatively rapidly deployable contingency force with armor protection tactical mobility and heavy firepower as well as advanced command control communications computer intelligence surveillance and reconnaissance c4isr capabilities covering the first new us army release since the m1 abrams mbt this book details the conception ongoing development and deployment of one of the most highly anticipated new afvs in recent years including its service in iraq and the ensuing controversy surrounding the stryker s varying successes

Hands-On Vision and Behavior for Self-Driving Cars

2020-10-23

a practical guide to learning visual perception for self driving cars for computer vision and autonomous system engineers key featuresexplore the building blocks of the visual perception system in self driving carsidentify objects and lanes to define the boundary of driving surfaces using open source tools like opencv and pythonimprove the object detection and classification capabilities of systems with the help of neural networksbook description the visual perception capabilities of a self driving car are powered by computer vision the work relating to self driving cars can be broadly classified into three components robotics computer vision and machine learning this book provides existing computer vision engineers and developers with the unique opportunity to be associated with this booming field you will learn about computer vision deep learning and depth perception applied to driverless cars the book provides a structured and thorough introduction as making a real self driving car is a huge cross functional effort as you progress you will cover relevant cases with working code before going on to understand how to use opencv tensorflow and keras to analyze video streaming from car cameras later you will learn how to interpret and make the most of lidars light detection and ranging to identify obstacles and localize your position you ll even be able to tackle core challenges in self driving cars such as finding lanes detecting pedestrian and crossing lights performing semantic segmentation and writing a pid controller by the end of this book you ll be equipped with the skills you need to write code for a self driving car running in a driverless car simulator and be able to tackle various challenges faced by autonomous car engineers what you will learnunderstand how to perform camera calibrationbecome well versed with how lane detection works in self driving cars using opencvexplore behavioral cloning by self driving in a video game simulatorget to grips with using lidarsdiscover how to configure the controls for autonomous vehiclesuse object detection and semantic segmentation to locate lanes cars and pedestrianswrite a pid controller to control a self driving car running in a simulatorwho this book is for this book is for software engineers who are interested in learning about technologies that drive the autonomous car revolution although basic knowledge of computer vision and python programming is required prior knowledge of advanced deep learning and how to use sensors lidar is not needed

Special Operations Patrol Vehicles

2011-09-20

the patrol vehicles used by special operations forces in afghanistan and iraq vary quite dramatically between the theatres as well as amongst the coalition members and have been developed and upgraded to meet the demands of the deployment covering all the major coalition nations leigh neville continues his look at the elite forces deployed in operations enduring freedom and iraqi freedom with this analysis of their vehicles tracing the evolution of the vehicle types from their historical precedents through their designs to their operational developments he discusses their advantages and disadvantages along with their tactical employment from the mine protected vehicles used to counter the ied threat in iraq the use of strykers as armoured raiding platforms by the us rangers to the civilian vehicles adapted for military service by both coalition troops and private military contractors in the regions this book uses rare in theatre photographs and colour artwork to show the variety and inventiveness of the patrol vehicles being used in combat today

BMP Infantry Fighting Vehicle 1967–94

2013-06-20

the russian bmp infantry fighting vehicle ifv was one of the most significant innovations in infantry tactics in the latter half of the 20th century built in response to the threat of nuclear warfare it was the world s first ifv providing the infantry squad with unprecedented firepower mobility and protection with over 55 000 manufactured since 1966 the bmp is also numerically one of the most important armoured vehicles ever built this richly illustrated book examines the development and design of the bmp detailing its armaments performance in combat and variants

British Sports Cars of the 1950s and ’60s

2014-05-10

e type jaguar triumph spitfire mga austin healey nobody built sports cars like british manufacturers in the 1950s and 60s there was something very special about the combination of low slung open two seater bodywork and spartan interior a slick sporting gearchange and a throaty exhaust note this was wind in the hair motoring and it was affordable by the average young man at least until he got married and had a family mg and triumph stood out as the market leaders but many other c companies thrived from luxury manufacturers like jaguar and even daimler to other more affordable marques this colourfully illustrated history tells the exciting story of the british sports car in the 1950s and 60s

Security in Autonomous Driving

2020-10-12

autonomous driving is an emerging field vehicles are equipped with different systems such as radar lidar gps etc that enable the vehicle to make decisions and navigate without user s input but there are still concerns regarding safety and security this book analyses the security needs and solutions which are beneficial to autonomous driving

American Civil War Railroad Tactics

2012-08-20

the american civil war was the world s first full blown railroad war the well developed network in the north was of great importance in serving the union armies logistic needs over long distances and the sparser resources of the south were proportionately even more important both sides invested great efforts in raiding and wrecking enemy railroads and defending and repairing their own and battles often revolved around strategic rail junctions robert hodges reveals the thrilling chases and pitched battles that made the railroad so dangerous and resulted in a surprisingly high casualty rate he describes the equipment and tactics used by both sides and the vital supporting elements maintenance works telegraph lines fuel and water supplies as well as garrisoned blockhouses to protect key points full colour illustrations bring the fast paced action to life in this fascinating read a must have volume for rail and civil war enthusiasts

Cool Cars

2013-10

learn about cool cars

Smokin' Sports Cars

2013-07-01

readers who love fast cars will love this book featuring many of the fastest most powerful cars on the planet they will meet the international superstars adored by car lovers the world over sports cars from ferrari lamborghini bmw porsche jaguar and more

Smokin' Muscle Cars

2013-07-01

america s love affair with cars is most passionate when it comes to the fastest most powerful and coolest looking models on the nation s roads author bob woods takes readers through the history of flashy muscle cars such as the pontiac gto ford mustang chevy camaro dodge charger and chevy corvette

Smokin' Race Cars

2013-07-01

students will learn about the cars the races and the exciting personalities of the sprint cup series this book explores the world of stock car racing and gives fans insight into all that goes into a big race

Smokin' Open-Wheel Race Cars

2013-07-01

in five fast paced chapters author erin egan takes readers through the wild world of open wheel racing from formula 1 to the indy racing league racing fans will learn about the history personalities and famous races associated with the different styles of open wheel race cars

Smokin' Dragsters and Funny Cars

2013-07-01

this fun volume explores the personalities the history and the crazy cars associated with the wild world of drag racing readers get a look into the different types of drag racing and a day at the races for an exciting you are there feeling

Stolen Cars

2022-01-18

stolen cars is an innovative ethnography of urban inequalities and violence in são paulo brazil organized around the journeys of five stolen cars each chapter discusses a specific theme such as the distinctions between violent robbery and the more commercial non violent theft or the role of national borders interconnecting illegal and legal economies provides an original theoretical framework for a rarely studied urban and transnational supply chain draws from empirical data and a combination of different methodologies to demonstrate mechanisms of urban inequalities and violence reproduction highlights how everyday life is entangled with structural urban transformations uses an ethnographic narrative to show how urban development produce various forms of illegality and violent crime

Streetcars and the Shifting Geographies of Toronto

2022-03-01

when looking at old pictures of toronto it is clear that the city s urban economic and social geography has changed dramatically over the generations historic photos of toronto s streetcar network offer a unique opportunity to examine how the city has been transformed from a provincial industrial city into one of north america s largest and most diverse regions streetcars and the shifting geographies of toronto studies the city s urban transformations through an analysis of photographs taken by streetcar enthusiasts beginning in the 1960s these photographers did not intend to record the urban form function or social geographies of toronto they were accidental archivists whose main goal was to photograph the streetcars themselves but today their images render visible the ordinary day to day life in the city in a way that no others did these historic photographs show a toronto before gentrification globalization and deindustrialization each image has been re photographed to provide fresh insights into a city that is in a constant state of flux with gorgeous illustrations this unique book offers an understanding of how toronto has changed and the reasons behind these urban shifts the visual exploration of historic and contemporary images from different parts of the city helps to explain how the major forces shaping the city affect its form functions neighbourhoods and public spaces

Vehicles, Drivers, and Safety

2020-05-05

this book presents works from world class experts from academia industry and national agencies representing countries from across the world focused on automotive fields for in vehicle signal processing and safety these include cutting edge studies on safety driver behavior infrastructure and human to vehicle interfaces vehicle systems driver modeling and safety is appropriate for researchers engineers and professionals working in signal processing for vehicle systems next generation system design from driver assisted through fully autonomous vehicles

Muscle Cars

2012-07-20

muscle cars is the story of america s pursuit of sheer horsepower in the 1960s and 70s the first of the type the famous pontiac gto or goat would launch a race between america s automotive manufacturers to produce ever more powerful v8 engines wrapped in legendary coke bottle sheet metal styling following ford s extremely successful introduction of the galloping mustang in 1964 others would follow such as general motors s camaro and firebird as well as plymouth s barracuda competing against one another on race tracks to win on sunday sell on monday this book details these golden years as well as the economic and environmental developments of the 1970s that brought an end to the muscle car era

Driverless Cars, Urban Parking and Land Use

2020-02-05

the subject of driverless and even ownerless cars has the potential to be the most disruptive technology for real estate land use and parking since the invention of the elevator this book includes new research and economic analysis plus a thorough review of the current literature to pose and attempt to answer a number of important questions about the effect that driverless vehicles may have on land use in the united states especially on parking simons outlines the history of disruptive technologies in transport and real estate before examining how the predicted changes brought in by the adoption of driverless technologies and decline in car ownership will affect our urban areas what could we do with all the parking areas in our cities and our homes and institutional buildings that may no longer be required can they be sustainably repurposed will self driving cars become like horses used only by hobbyists for recreation and sport while the focus is on parking the book also contains the views of real estate economists architects and policymakers and is essential reading for real estate developers and investors transport economists planners politicians and policymakers who need to consider the implications of a future with more driverless vehicles fasten your seat belt like it or not driverless cars will begin to change the way we move about our cities within ten years

Triumph Sports Cars

2017-02-23

in the 1950s and 1960s british sports car ruled the road and their charge was led by triumphs from the tr2 its first modern sports car triumph went on to produce a host of classic sports designs such as the spitfire gt and stag as well as more tr models ending with the tr7 in the late 1970s these represented the epitome of the contemporary classic british sports car fast nimble and gorgeous to behold triumphs offered the everyday motorist an exhilarating drive at a price that they could afford popular both in the uk and the us the triumph range helped define the entire genre with sports cars today like the mazda mx 5 having their roots in models like the stag illustrated throughout and written by acclaimed motoring writer and historian graham robson this book guides the reader through the history of this classic british marque from its heyday in the 1960s and 1970s through to its eventual demise in the 1980s

Building Secure Cars

2021-03-16

explores how the automotive industry can address the increased risks of cyberattacks and incorporate security into the software development lifecycle while increased connectivity and advanced software based automotive systems provide tremendous benefits and improved user experiences they also make the modern vehicle highly susceptible to cybersecurity attacks in response the automotive industry is investing heavily in establishing cybersecurity engineering processes written by a seasoned automotive expert with abundant international industry expertise building secure cars assuring the software development lifecycle introduces readers to various types of cybersecurity activities measures and solutions that can be applied at each stage in the typical automotive development process this book aims to assist auto industry insiders build more secure cars by incorporating key security measures into their software development lifecycle readers will learn to better understand common problems and pitfalls in the development process that lead to security vulnerabilities to overcome such challenges this book details how to apply and optimize various automated solutions which allow software development and test teams to identify and fix vulnerabilities in their products quickly and efficiently this book balances technical solutions with automotive technologies making implementation practical building secure cars is one of the first books to explain how the automotive industry can address the increased risks of cyberattacks and how to incorporate security into the software development lifecycle an optimal resource to help improve software security with relevant organizational workflows and technical solutions a complete guide that covers introductory information to more advanced and practical topics written by an established professional working at the heart of the automotive industry fully illustrated with tables and visuals plus real life problems and suggested solutions to enhance the learning experience this book is written for software development process owners security policy owners software developers and engineers and cybersecurity teams in the automotive industry all readers will be empowered to improve their organizations security postures by understanding and applying the practical technologies and solutions inside

Heavy Vehicle Event Data Recorder Interpretation

2018-11-02

the last ten years have seen explosive growth in the technology available to the collision analyst changing the way reconstruction is practiced in fundamental ways the greatest technological advances for the crash reconstruction community have come in the realms of photogrammetry and digital media analysis the widespread use of scanning technology has facilitated the implementation of powerful new tools to digitize forensic data create 3d models and visualize and analyze crash vehicles and environments the introduction of unmanned aerial systems and standardization of crash data recorders to the crash reconstruction community have enhanced the ability of a crash analyst to visualize and model the components of a crash reconstruction because of the technological changes occurring in the industry many sae papers have been written to address the validation and use of new tools for collision reconstruction collision reconstruction methodologies volumes 1 12 bring together seminal sae technical papers surrounding advancements in the crash reconstruction field topics featured in the series include night vision study and photogrammetry vehicle event data recorders motorcycle heavy vehicle bicycle and pedestrian accident reconstruction the goal is to provide the latest technologies and methodologies being introduced into collision reconstruction appealing to crash analysts consultants and safety engineers alike

Vehicle Scanning Method for Bridges

2019-10-03

presents the first ever guide for vehicle scanning of the dynamic properties of bridges written by the leading author on the subject of vehicle scanning method vsm for bridges this book allows engineers to monitor every bridge of concern on a regular and routine basis for the purpose of maintenance and damage detection it includes a review of the existing literature on the topic and presents the basic concept of extracting bridge frequencies from a moving test vehicle fitted with vibration sensors how road surface roughness affects the vehicle scanning method is considered and a finite element simulation is conducted to demonstrate how surface roughness affects the vehicle response case studies and experimental results are also included vehicle scanning method for bridges covers an enhanced technique for extracting higher bridge frequencies it examines the effect of road roughness on extraction of bridge frequencies and looks at a dual vehicle technique for suppressing the effect of road roughness a filtering technique for eliminating the effect of road roughness is also presented in addition the book covers the identification of bridge mode shapes contact point response for modal identification of bridges and damage detection of bridges all through the use of a moving test vehicle the first book on vehicle scanning of the dynamic properties of bridges written by the leading author on the subject includes a state of the art review of the existing works on the vehicle scanning method vsm presents the basic concepts for extracting bridge frequencies from a moving test vehicle fitted with vibration sensors includes case studies and experimental results the first book to fully cover scanning the dynamic properties of bridges with a vehicle vehicle scanning method for bridges is an excellent resource for researchers and engineers working in civil engineering including bridge engineering and structural health monitoring

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