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Automotive, Aviation
and Maritime Studies



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A Practical Guide to Vehicle Refinishing



Julian Woodstock

This is a heavily illustrated guide for the Level 2 and 3 vehicle refinishing qualifications and a troubleshooting reference for more advanced technicians. It covers the whole repair process - from identifying different substrates and prepping to applying top coats - along with tools, equipment and health and safety.

CRC Press

October 2019:244

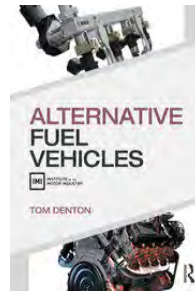
Hb: 978-1-138-48666-9: **£94.99**

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* For full contents and more information, visit: www.routledge.com/9781138486645

Alternative Fuel Vehicles



Tom Denton

Alternative Fuel Vehicles examines the ever growing demand for vehicles that operate using non-conventional fuels. This book provides an overview of alternative fuels, ideal for beginners, starting with the very basic principles of alternative fuel, before moving on to consider alternative fuel technologies, the influencing environmental factors and the future of alternative fuel. Using real-life case studies and examples, this book is an ideal companion to any unit of study on alternative fuel, but will also be of interest to working technicians and keen amateurs.

Routledge

May 2018:120

Hb: 978-1-138-50370-0: **£84.99**

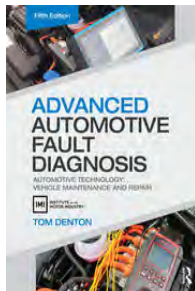
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Advanced Automotive Fault Diagnosis

Automotive Technology: Vehicle Maintenance and Repair



Tom Denton

This provides all the skills to pass Level 3 and 4 Vehicle Diagnostic courses from IMI, City and Guilds and BTEC, as well as ASE, AUR and other higher level qualifications. This fifth edition of Advanced Automotive Fault Diagnosis includes new content on diagnostic tools and equipment, with ten totally new case studies. It explains the fundamentals of vehicle systems and components and examines diagnostic principles as well as effective vehicle maintenance and repair. Diagnostics, or fault finding, is an essential part of an automotive technician's work, and as automotive systems become increasingly complex there is a greater need for good diagnostics skills.

Routledge

September 2020:418

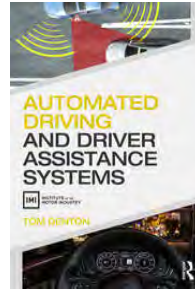
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eBook: 978-0-429-31778-1

* For full contents and more information, visit: www.routledge.com/9780367330521

Automated Driving and Driver Assistance Systems



Tom Denton

Automated driving vehicles are undergoing serious testing around the world. This book explains the technologies straightforwardly, covering the subject from several angles but in particular showing the links to existing ADAS technologies already in use on all modern vehicles. While some manufacturers expect to have vehicles available from 2020, it will be much longer before they are commonplace. Yet it is crucial to be ready for the huge change automated driving will bring. This is the first book of its type available and complements Tom Denton's other books.

Routledge

October 2019:154

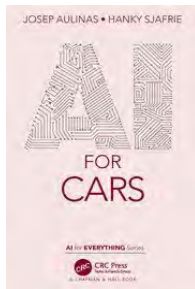
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AI for Cars



Josep Aulinas, Hanky Sjafrie

Series: AI for Everything

Artificial Intelligence (AI) is undoubtedly playing an increasingly significant role in automobile technology. AI for Cars book provides a short-guided tour through many different AI landscapes including robotics, image and speech processing, recommender systems and on to deep learning, all within the automobile world. From pedestrian detection to driver monitoring to recommendation engines, the book discusses the background, research and progress thousands of talented engineers and researchers have achieved thus far, and their plans to deploy this life-saving technology all over the world.

Chapman & Hall

July 2021:128

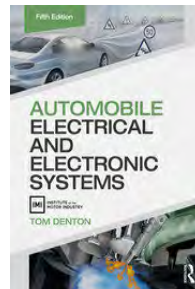
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Automobile Electrical and Electronic Systems



Tom Denton

Automobile Electrical and Electronic Systems will help you learn all the skills you need to pass Level 3 vehicle electrical and electronic systems courses or related modules from IMI, City and Guilds and BTEC, and is also ideal for higher level ASE, AUR and other 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 mechanics in keeping up with recent technological advances.

Routledge

September 2017:700

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* For full contents and more information, visit: www.routledge.com/9780415725774



Automobile Mechanical and Electrical Systems

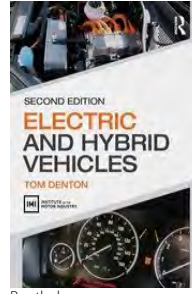


Tom Denton, Hayley Pells

This concentrates on core technologies of how new vehicle systems work, from the engine through to the chassis and electronics. Now with fresh coverage of HVAC (heating, ventilation and air conditioning), water pumps, thermal management, EV/HV awareness, safety management and hygiene, occupant restraints, and lighting systems. It outlines the necessary tools and equipment for effective car maintenance and repair in full colour with copious photographs, diagrams, flow charts and quick reference tables with definitions, key facts and 'safety first' considerations and is supported by the author's website www.automotive-technology.org

Routledge
November 2022:420
Hb: 978-1-032-28909-0: **£94.99**
Pb: 978-1-032-28908-3: **£32.99**
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* For full contents and more information, visit: www.routledge.com/9781032289083

Electric and Hybrid Vehicles

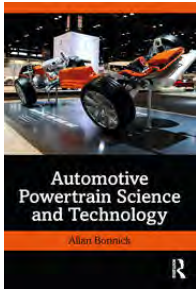


Tom Denton

This straightforward and highly illustrated full colour textbook is endorsed by by the Institute of the Motor Industry, and introduces the subject for further education and undergraduate students as well as technicians. This new edition includes a new section on diagnostics and completely updated case studies. Optional IMI online eLearning materials support readers. It is particularly suitable for students studying towards IMI Level 2 Award in Hybrid Electric Vehicle Operation and Maintenance, IMI Level 3 Award in Hybrid Electric Vehicle Repair and Replacement, IMI Accreditation, C&G and other EV/Hybrid courses.

Routledge
June 2020:222
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* For full contents and more information, visit: www.routledge.com/9780367273231

Automotive Powertrain Science and Technology

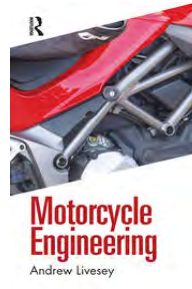


Allan Bonnick

A motor vehicle's powertrain consists of the components which generate power and enable it to move – its engine, exhaust system, transmission, drive shaft, suspension and wheels. Any automotive engineering student going beyond basic mechanics will need a sound knowledge of the mathematics and scientific principles, particularly calculus and algebra, which underpin powertrain technology. This textbook supports a series of courses, for instance BTEC unit 28 "Further Mathematics for Engineering Technicians", and BTEC higher unit 25 "Engine and Vehicle Design and Performance", without giving full coverage of automotive technology.

Routledge
March 2020:208
Hb: 978-0-367-33111-5: **£89.99**
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* For full contents and more information, visit: www.routledge.com/9780367331139

Motorcycle Engineering



Andrew Livesey

Motorcycle Engineering is written to give the reader a good all-round knowledge of how a motorcycle works. The complex engineering behind the machines is explained in easy-to-understand terms and supported by 350 images. It covers a range of motorcycle types, and will be particularly useful for students on motorcycle and motorsport courses such as those run by the IMI and City & Guilds, as well as BTEC programmes, and will serve as an excellent introductory text for HND and degree students on automotive type programmes.

Routledge
April 2021:380
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Automotive Technician Training: Theory

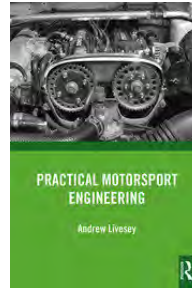


Tom Denton, Hayley Pells

Automotive Technician Training is the definitive textbook for automotive engineering. Produced alongside the ATT online learning resources, this textbook covers all the theory and technology sections that students need to learn in order to pass levels 1, 2 and 3 automotive courses. It is recommended by the Institute of the Motor Industry and is ideal for exams run by other awarding bodies. The revised edition overhauls the coverage of workshop skills and advanced diagnostic techniques. It also includes a new chapter about electric and hybrid vehicles and advanced driver-assistance systems, along with new online learning activities.

Routledge
September 2021:578
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Pb: 978-1-032-00220-0: **£39.99**
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* For full contents and more information, visit: www.routledge.com/9781032002200

Practical Motorsport Engineering



Andrew Livesey

This book covers motorsport engineering from a practical point of view. Written by a practising professional in an accessible style, it offers a wide-ranging insight into the nuts and bolts technology of practical car racing for students at all levels, especially levels 2 and 3 IMI, EAL and BTEC courses, and engineers.

Routledge
December 2018:314
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The Repair of Vehicle Bodies



Andrew Livesey

This new edition of Trevor Livesey's classic is the single most detailed reference manual and practical book on vehicle body repair, covering the vocationally related knowledge (VRQ) required by the modern student and apprentice, as well as providing an essential reference for working professionals. New additions include an entirely new section on the work of the MET technician (mechanical, electrical and trim); developments in body repair methodology such as repair pods and the greater use of alignment equipment; and greater emphasis on the environment with new sections on hybrid vehicles and the hazards of starting current vehicles with high levels of technology.



Routledge

August 2018:542

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eBook: 978-1-351-23065-0

* For full contents and more information, visit: www.routledge.com/9780815378693



Aircraft Communications and Navigation Systems



Mike Tooley, David Wyatt

Introducing the principles of communications and navigation systems, this book is written for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline, and in particular will be suitable for those studying for licensed aircraft maintenance engineer status. It systematically addresses the relevant sections (ATA chapters 23/34) of modules 11 and 13 of part-66 of the EASA syllabus, and is ideal for anyone studying as part of an EASA and FAR-147 approved course in aerospace engineering.

Routledge
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Airline Operations and Management

A Management Textbook



Gerald N. Cook, Bruce G. Billig

Airline Operations and Management: A Management Textbook presents a survey of the airline industry, with a strong managerial perspective. It integrates and applies the fundamentals of several management disciplines, particularly operations, marketing, economics and finance, to develop a comprehensive overview

Routledge
May 2023:412
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eBook: 978-1-003-29030-8

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Aircraft Digital Electronic and Computer Systems



Mike Tooley

This text is a thorough introduction to the principles and practice of aircraft digital electronic, avionic and computer systems. It particularly suits maintenance engineer students on an EASA Part-66 or FAR-147 approved course, and those on related City & Guilds, National or Higher National Units, or First/Foundation degree courses in aircraft engineering and similar. New topics in this third edition include integrated modular avionics, cabin systems, and aircraft information systems; together with examples from the latest Airbus and Boeing systems, and updates to data buses and integrated circuits. The companion website www.66web.co.uk offers additional resource material.

Routledge
July 2022:412
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Pb: 978-1-032-10480-5: **£44.99**
eBook: 978-1-003-21551-6

* For full contents and more information, visit: www.routledge.com/9781032104805

Airport Economics



Peter Forsyth, Cathal Guiomard, Hans-Martin Niemeier

Series: Managing Aviation Operations

This book provides a comprehensive guide to the economics of airports for all managers, regulators and educators within the aviation industry. Written by three renowned experts but made accessible and relevant for all those working within the industry, or aspiring to do so, it is the perfect entry point for learning about the underlying economics of airports as a crucial component of the air transport system. It explains the cost structures of airports, and then relates these to how airports determine their charges.

Routledge
July 2023:216
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Aircraft Electrical and Electronic Systems



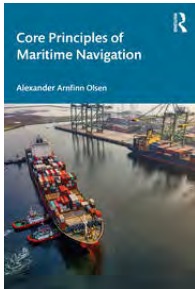
David Wyatt, Mike Tooley

Introducing the principles of communications and navigation systems, this book is written for anyone pursuing a career in aircraft maintenance engineering or a related aerospace engineering discipline, and in particular will be suitable for those studying for licensed aircraft maintenance engineer status. It systematically addresses the relevant sections of modules 11 and 13 of part-66 of the EASA syllabus, and is ideal for anyone studying as part of an EASA and FAR-147 approved course in aerospace engineering.

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Core Principles of Maritime Navigation



Alexander Arnfinn Olsen

Core Principles of Maritime Navigation introduces the main navigation concepts required by trainees and professionals involved in maritime operations. The book covers a wide range of subjects from wind, waves and depths to navigational marks and buoys, navigational techniques and equipment, passage planning, duties of the Officer of the Watch, berthing and anchorage. It is not intended to be a technical publication; rather, it aims to introduce core ideas and concepts in an accessible way for general readers, university students, cadets and for the continuous professional development of experienced seafarers.

Routledge

August 2022:200

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Maritime Law



Edited By Yvonne Baatz

Series: *Maritime and Transport Law Library*

Now in its fifth edition, this authoritative guide covers all of the core aspects of maritime law in one distinct volume. Maritime Law is written by a team of leading academics and practitioners, each expert in their own field. Together, they provide clear, concise and fully up-to-date coverage of topics ranging from bills of lading to arrest of ships, all written in an accessible and engaging style. As English law is heavily relied on throughout the maritime world, this book is grounded in English law whilst continuing to analyse the key international conventions currently in force.

Informa Law from Routledge

October 2020:738

Hb: 978-0-367-49670-8: **£205.00**

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Academic Writing for International Students of Science



Jane Bottomley

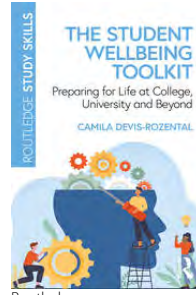
This second edition is an accessible companion designed to help science and technology students develop the knowledge, skills and strategies needed to produce clear and coherent academic writing in their university assignments. Using authentic texts to explore the nature of scientific writing, the book covers key areas such as scientific style, effective sentence and paragraph structure, and coherence in texts and arguments. Throughout the book, a range of tasks offers the opportunity to put theory into practice. This is an invaluable tool for the busy science or technology student looking to improve their writing and reach their full academic potential.

Routledge
October 2021:220
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* For full contents and more information, visit: www.routledge.com/9780367632724

The Student Wellbeing Toolkit

Preparing for Life at College, University and Beyond



Camila Devis-Rozental

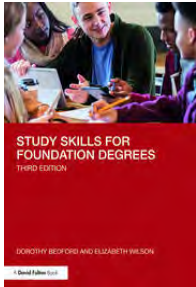
Series: *Routledge Study Skills*

The Student Wellbeing Toolkit puts wellbeing at the centre of your journey into university and beyond. By encouraging self-efficacy and a focus on the things you can control, it provides clear guidance to enhance wellbeing and opportunities for self-reflection that help develop self-awareness and prosocial skills for life. Drawing on research evidenced theories around positive psychology, theories of learning, motivation, and self-development, the book explores what, how, and why these areas are key to our wellbeing and the rationale for taking them into account to enable you to flourish and thrive at university.

Routledge
June 2023:286
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Study Skills for Foundation Degrees



Dorothy Bedford, Elizabeth Wilson

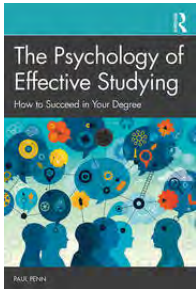
Study Skills for Foundation Degrees offers a step-by-step guide to the skills needed to successfully complete a Foundation Degree. Filled with activities and useful tips, it will help students to move from nervous novice to confident expert and provide them with the necessary tools to accomplish this. This third edition has been fully updated and features new chapters on e-learning, dissertations as well as expanded sections on ethics, feedback and referencing. Each chapter includes practical guidance as well as student perspectives that will help students through their course of study.

Routledge
December 2019:200
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eBook: 978-0-429-31810-8

* For full contents and more information, visit: www.routledge.com/9780367331351

The Psychology of Effective Studying

How to Succeed in Your Degree



Paul Penn

This book provides a vital guide for students to key study skills that are instrumental in success at university. It uses a combination of research from cognitive psychology, humour and practical examples to convey where students often go fundamentally wrong in their studying practices and provides clear and concise advice on how they can improve. The book covers time management, academic integrity, writing essays, team work, and other key required skills for academic study. Written in a humorous and irreverent tone, and including illustrations and examples from popular culture, this is the ideal alternative and accessible study skills resource for any student at undergraduate level.

Routledge
August 2019:244
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