



# [Books] Automotive Heating And Air Conditioning (Halderman Automotive Series)

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**Automotive Heating and Air Conditioning**-Thomas Wesley Birch 2012 Ideal for both novice and advanced technicians, Automotive Heating and Air Conditioning, Sixth Edition, provides a complete, state-of-the-art source on automotive heating, ventilation, and air conditioning systems.Correlated to NATEF and ASE tasks, the text focuses on the generic theory that underlies the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Formatted to better meet the learning needs of today's technical trade students, it visually supports concepts covered throughout, and includes many practical shop tips that guide students through important problem-solving procedures they'll use on the job.

**Automotive Heating & Air Conditioning**-Editors of Haynes Manuals 2011-05-01 Written for the do-it-yourselfer, good enough for the pro. Includes everything you wish to know about your vehicles heating and air conditioning. From simple adjustments, to complete tune-ups and troubleshooting.

**Automotive Air Conditioning and Climate Control Systems**-Steven Daly 2011-04-18 Automotive Air-conditioning and Climate Control Systems is a complete text and reference on the theoretical, practical and legislative aspects of vehicle climate control systems for automotive engineering students and service professionals. It provides the reader with a thorough up-to-date knowledge of current A/C systems, refrigerants and the new possible replacement systems like CO2, and includes unrivalled coverage of electronic and electrical control. Filling the gap in the automotive engineering and servicing market for students and those training on the job, this book will help both newcomers and those with more experience of air-conditioning systems maintenance engineering to keep up with the latest developments and legislation. Detailed coverage of European and US vehicle HVAC systems Thorough explanation of current and future systems including CO2 Meets relevant C&G, IMI, and HND vocational and professional qualifications IMI recommended reading material Includes practical cases studies and examples from design and manufacturing companies including Ford, Vauxhall, Toyota, VW, Visteon, Sanden and others, accompanied by over 300 detailed illustrations and photographs

**How to Repair Automotive Air-Conditioning and Heating Systems**-Jerry Clemons 2019-10-15 Technical instructor and HVAC expert Jerry Clemons completely covers both air-conditioning as well as heating systems, so you can save money repairing your own vehicle. Covered is a history of HVAC systems, airflow throughout the system, the principles of refrigerant, diagnosis of common faults in older systems, testing procedures, and finally repair and, in the case of air conditioning, recharging your system. Also included is proper evacuation and disposal of any residual refrigerant in the system. Components such as compressors, condensers, evaporators and heater cores, pressure switches and climate control electrics and switches are also covered. Finally, for people with older cars, converting from the no-longer-available R-12 to R134a is detailed. Automotive climate controls are a complex system and are difficult to repair without proper instruction. Whether you are trying to get your old classic back to its original form or are just looking to save on expensive repairs, author Jerry Clemons and this book provide the knowledge you will need to get your car back on the road and cruising in comfort.

**Automotive Heating, Ventilation, and Air Conditioning**-Joseph Wagner 2018-07-13 Automotive Heating, Ventilation, and Air Conditioning is an authoritative guide in the CDX Master Automotive Technician Series that teaches students everything they need to know about mobile HVAC, from basic system design and operation to strategy-based diagnostics. The text combines tried-and-true techniques with information on the latest technology so that students can successfully diagnose and fix any mobile HVAC problems they encounter in the shop.

**Auto Heating & Air Conditioning Technology**-Chris Johanson 2003-08-01

**Today's Technician**-Mark Schnubel 2019-02-12

**ASE Test Preparation - A7 Heating and Air Conditioning**-Cengage Learning Delmar 2011-06 The fifth edition of Delmar's Automotive Service Excellence (ASE) Test Preparation Manual for the A7 HEATING AND AIR CONDITIONING certification exam contains an abundance of content designed to help you successfully pass your ASE exam. This manual will ensure that you not only understand the task list and therefore the content your actual certification exam will be based upon, but also provides descriptions of the various types of questions on a typical ASE exam, as well as presents valuable test taking strategies enabling you to be fully prepared and confident on test day.

**Automotive Air Conditioning**-Quansheng Zhang 2016-08-10 This book presents research advances in automotive AC systems using an interdisciplinary approach combining both thermal science, and automotive engineering. It covers a variety of topics, such as: control strategies, optimization algorithms, and diagnosis schemes developed for when automotive air condition systems interact with powertrain dynamics. In contrast to the rapid advances in the fields of building HVAC and automotive separately, an interdisciplinary examination of both areas has long been neglected. The content presented in this book not only reveals opportunities when interaction between on-board HVAC and powertrain is considered, but also provides new findings to achieve performance improvement using model-based methodologies.

**Today's Technician: Automotive Heating & Air Conditioning Classroom Manual and Shop Manual**-Mark Schnubel 2012-02-02 TODAY'S TECHNICIAN: AUTOMOTIVE HEATING & AIR CONDITIONING, Fifth Edition, is an integrated, two-book set that covers theory and hands-oncontent in separate Classroom and Shop Manuals. This innovative approach allows you to learn fundamental climate control theory, including basic physics related to heat transfer, before applying your knowledge through practical, hands-on shop work. Cross-references in each manual link related material, making it easy to connect book learning to lab and shop activity. Updated to reflect the latest trends, technology, and relevant NATEF standards, the Fifth Edition includes new material on next-generation refrigerants such as HFO-1234yf, as well as a bold, full-color design for enhanced reader appeal. This up-to-date, technically accurate guide is a valuable resource for students and professionals seeking ASE certification, or anyone interested in the principles, components, diagnosis, and repair of modern automotive heating and air conditioning systems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Automotive Heating and Air Conditioning**-James D. Halderman 2017-01-10 This is the eBook of the printed book and may not include any media, website access

codes, or print supplements that may come packaged with the bound book. Automotive Heating and Air Conditioning, 8/e provides a complete, state-of-the-art source on automotive heating, ventilation, and air conditioning systems, as well as the practical skills that students must master to be successful in the industry. The text focuses on the generic theory that underlies the operation, diagnosis, and repair of the units and subassemblies found in the many makes and types of vehicles students will likely encounter in their careers. Formatted to appeal to today's technical trade students, Halderman uses helpful tips and visuals to bring concepts to life and guide students through the procedures they'll use on the job. This book is part of the Pearson Automotive Professional Technician Series, which provides full-color, media-integrated solutions for today's students and instructors covering all eight areas of ASE certification, plus additional titles covering common courses. Peer reviewed for technical accuracy, the series and the books in it represent the future of automotive textbooks.

**Automotive Heating and Air Conditioning: Classroom manual**-Boyce H. Dwiggins 2000-12 Today's Technician: Automotive Heating and Air Conditioning, 2E has been updated to include the 2000 ASE Task List. This edition also addresses current Environmental Protection Agency (EPA) requirements, with extensive updates on refrigerants, as well as refrigerant recovery, recycle and reclaim procedures. Discussion of leak testing techniques, including all-new UV coverage, has also been expanded in this edition. To facilitate learning, each chapter includes objectives, a list of key terms, plus ASE-style review questions. "Customer Care" features highlight the importance of creating and maintaining positive customer relationships case studies, service tips, cautions, and warnings plus additional Job Sheets ensure that readers are prepared for employment in the automotive trade.

**Chilton's Auto Air Conditioning & Wiring Diagram Manual**-Chilton Book Company. Automotive Book Department 1971

**Today's Technician: Automotive Heating & Air Conditioning Classroom Manual and Shop Manual, Spiral bound Version**-Mark Schnubel 2016-01-25 Updated to reflect the latest trends, technology, and relevant ASE Education Foundation standards, this integrated, two-book set covers theory and hands-on content in separate Classroom and Shop Manuals. This innovative approach allows students to learn fundamental climate control theory, including basic physics related to heat transfer, before applying their knowledge through practical, hands-on shop work. Cross-references in each manual link related material, making it easy to connect classroom learning to lab and shop activity. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

**Automotive Climate Control 116 Years of Progress**-Gene D. Dickirson 2012 The evolution of automotive climate control systems is told in more than 500 pages including more than 600 pictures. The progress made in heaters, defrosters, air conditioners, ventilation systems and windshield wipers since 1897 is enormous. This book shows how the automobile manufacturers and suppliers have made driving an automobile safe and pleasant in any type of weather. The major changes that have occurred from the early use of lap robes and charcoal heaters to the modern, sophisticated, electronically controlled systems are fully documented in this book.--P. [4] of cover.

**Automotive Heating and Air Conditioning**-Thomas Wesley Birch 2006 Extensively illustrated, clearly written, and state-of-the-art in focus, this comprehensive MHVAC manual is ideal for both novice and advanced technicians. ASE-based in coverage, it focuses on the generic theory that underlies the operation, diagnosis, and repair of the MHVAC units and subassemblies found in the many makes and types of vehicles students will likely encounter on the job. Features 52 Real-World Fixes (case studies) showing how technicians have solved and repaired difficult problems, and 85 Service Tips (procedures that can bring a job to completion faster or ensure a more thorough repair). The volume has the support of much of the RVAC and Santech Industries cooling system repair industry. Complete coverage of the theory, service and repair aspects of automotive heating and air conditioning. Also includes an index for the "How to Service Operations." A reference for working automotive MVAC technicians.

**Emerging Trends in Technological Innovation**-Luis M. Camarinha-Matos 2010-02-09 Identifying Emerging Trends in Technological Innovation Doctoral programs in science and engineering are important sources of innovative ideas and techniques that might lead to new products and technological innovation. Certainly most PhD students are not experienced researchers and are in the process of learning how to do research. Nevertheless, a number of empiric studies also show that a high number of technological innovation ideas are produced in the early careers of researchers. The combination of the eagerness to try new approaches and directions of young doctoral students with the experience and broad knowledge of their supervisors is likely to result in an important pool of innovation potential. The DoCEIS doctoral conference on Computing, Electrical and Industrial En- neering aims at creating a space for sharing and discussing ideas and results from doctoral research in these inter-related areas of engineering. Innovative ideas and hypotheses can be better enhanced when presented and discussed in an encouraging and open environment. DoCEIS aims to provide such an environment, releasing PhD students from the pressure of presenting their propositions in more formal contexts.

**Natef Correlated Task Sheets for Automotive Heating and Air Conditioning**-James D. Halderman 2017-01-06

**Haynes Automotive Reference Manual and Illustrated Automotive Dictionary**-John Haynes 1994-12-03 This series of comprehensive manuals gives the home mechanic an in-depth look at specific areas of auto repair.

**Handbook of Air Conditioning and Refrigeration**-Shan K. Wang 2001 \* A broad range of disciplines--energy conservation and air quality issues, construction and design, and the manufacture of temperature-sensitive products and materials--is covered in this comprehensive handbook \* Provide essential, up-to-date HVAC data, codes, standards, and guidelines, all conveniently located in one volume \* A definitive reference source on the design, selection and operation of A/C and refrigeration systems

**Fundamentals of Automotive Technology**-Kirk VanGelder 2017-02-24 Automotive technicians must learn how to safely and effectively maintain, diagnose, and repair every system on the automobile. Fundamentals of Automotive Technology provides students with the critical knowledge and essential skills to master these tasks successfully. With a focus on clarity and accuracy, the Second Edition offers students and instructors a single source of unparalleled coverage for every task from MLR through MAST. Fully updated and reorganized, the revised format enhances student comprehension and encourages critical thinking.

**Automotive Heating and Air Conditioning**-Mark Schnubel 2004-05 Key updates in the areas of electronic systems, climate control, and case and duct systems are just some of the enhancements to the newly revised Today's Technician: Automotive Heating and Air Conditioning, Third Edition. This two-book set continues to provide users with a complete introduction to automotive heating and air conditioning. In addition, a new chapter on both retrofits and future trends points to the prospect of R-744 becoming the next preferred automotive refrigerant. Also included is a comparison of components used in R-134A systems with those used in R-12 systems and a discussion of the various refrigerants approved to replace R-12. Coverage of modern engine cooling and heating systems incorporates discussion of the requirements for a closed cooling system and the operation of various types of cooling fans. Finally, all job sheets in the Shop Manual now include the exact NATEF and ASE tasks that each job sheet correlates to, ensuring that readers are well prepared for employment in the automotive trade.

#### Automotive Heating and Air Conditioning

**Today's Technician: Automotive Suspension & Steering Classroom Manual and Shop Manual**-Mark Schnubel 2014-04-16 This text covers both the theory and procedures related to the diagnosis and service of automotive suspension and steering systems, using a unique two-volume approach to optimize learning in both the classroom and the auto shop. The first volume (Classroom Manual) details the theory and application of suspension and steering systems, while the second (Shop Manual) covers real-world symptoms, diagnostics, and repair information. Known for its comprehensive coverage, accurate and up-to-date details, and abundant illustrations, the text is an ideal resource to prepare for success as an automotive technician or pursue ASE certification. Now updated with extensive information on new and emerging technology and techniques—including hybrid and electric vehicles, tire plus sizing, and computer-controlled suspensions—the Sixth Edition also aligns with area A4 of the ASE Education Foundation 2012 accreditation model, including job sheets correlated to specific AST and MAST tasks. Ideal for aspiring and active automotive professionals, TODAY'S TECHNICIAN: AUTOMOTIVE SUSPENSION & STEERING SYSTEMS, Sixth Edition, equips readers to confidently understand, diagnose, and repair suspension and steering systems in today's automobiles. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

#### Automotive Heating and Air Conditioning

**Manual**-Mike Stubblefield 2003-05 Written for the do-it-yourselfer, good enough for the pro. Includes everything you wish to know about your vehicles heating and air conditioning. From simple adjustments, to complete tune-ups and troubleshooting.

#### Automotive Heating and Air Conditioning

**SYSTEMS**-James D. Halderman 2016

#### Automotive Heating and Air Conditioning

**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.

#### Automotive Heating and Air Conditioning

**Classroom Manual for Automotive Heating and Air Conditioning**-Mark Schnubel 2004-05 Key updates in the areas of electronic systems, climate control, and case and duct systems are just some of the enhancements to the newly revised Today's Technician: Automotive Heating and Air Conditioning, Third Edition. This two-book set continues to provide users with a complete introduction to automotive heating and air conditioning. In addition, a new chapter on both retrofits and future trends points to the prospect of R-744 becoming the next preferred automotive refrigerant. Also included is a comparison of components used in R-134A systems with those used in R-12 systems and a discussion of the various refrigerants approved to replace R-12. Coverage of modern engine cooling and heating systems incorporates discussion of the requirements for a closed cooling system and the operation of various types of cooling fans. Finally, all job sheets in the Shop Manual now include the exact NATEF and ASE tasks that each job sheet correlates to, ensuring that readers are well prepared for employment in the automotive trade.

#### Automotive Heating and Air Conditioning

**Manual**-Boyce H. Dwiggins 2001

#### Automotive Heating and Air Conditioning

**Today's Technician: Automotive Heating & Air Conditioning**-Mark Schnubel 2008-08-11 Today's Technician: Heating & Air Conditioning, 4E is a two-book set that separates theory and diagnostic content into Classroom and Shop Manuals. This separation allows readers to learn theories of heating and air conditioning before applying them, with the benefit of cross-referenced page numbers in each manual to link related material. Updated to reflect the industry's latest developments and trends, this edition includes expanded coverage of basic theories, as well as all-new sections on upgraded equipment, sealant contamination and testing, and non-compressible gas contamination. In addition, the information on compressors has been updated to include new hybrid electric compressors and the safety issues that accompany them. With this up-to-date, technically accurate information, this is a valuable resource for learning the theory, components, diagnosis and repair of modern automotive heating and air conditioning systems. Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

#### Automotive Heating and Air Conditioning

**Camper Rehab**-Chris Peterson 2017-12-12 Old campers have an appeal that reaches back in time and can send your imagination soaring. Let's face it: they are cool. Who hasn't seen one parked on a boulevard with a "for sale" sign and pictured it bouncing along behind the family car, ready for adventure and fun? Unfortunately, campers are not quite homes, they are not quite cars, and they have their own unique systems and demands that make fixing and upgrading a challenge. Even if you have plenty of DIY experience, a camper speaks a foreign language. Consider Camper Rehab your Rosetta Stone for the language of Shasta, Dutchmen, or Airstream. This book is a top-to-bottom guide to getting a fifth-wheel, teardrop, or other camper trailer ready for the road and beyond. From basic troubleshooting to electrical and plumbing projects, replacing interior surfaces, and clever (sometimes "retro") decorating ideas, this book uses detailed illustrations, color photography, and a wealth of step-by-step, how-to information to get help you get your travel trailer into shape for your next big--or little--adventure. And in case you haven't pulled the trigger on that trailer you're eying on Craigslist just yet, Camper Rehab also walks you through the process of evaluating a potential purchase, identifying which issues are fixable and which are dealbreakers, as well as how to spot hidden problems. Written by accomplished DIY author Chris Peterson, whose light and approachable tone is coupled with the hardworking DIY information you need, Camper Rehab is a must-have for any camper owner or dreamer.

#### Automotive Heating and Air Conditioning

**Systems Manual**-Mike Stubblefield 2000 Written for the do-it-yourselfer, good enough for the pro. Includes everything you wish to know about your vehicles heating and air conditioning. From simple adjustments, to complete tune-ups and troubleshooting.

**HVAC Systems Design Handbook**-Roger Haines 2003-03-21 \* A classic reference providing the applications, on-the-job insights, codes and specifications, and direction needed to design HVAC systems \* Covers residential, commercial, and industrial systems \* NEW coverage of Energy Conservation and Digital Control Practice and greater emphasis on indoor air quality

#### Automotive Heating and Air Conditioning

**Automotive Air Conditioning**-Boyce H. Dwiggins 2002 Being a vanguard for the automotive air conditioning industry's professional training was just the beginning. Today, Boyce Dwiggins continues to fulfill his mission of educating tomorrow's technicians by providing them with one of the most authoritative guides to theory, diagnostic procedures, and service practices available anywhere! Fully updated and significantly expanded, this edition of our popular Automotive Air Conditioning book now features all-new, extensive guidelines and step-by-step procedures for working with state-of-the-art automotive computer controls. More comprehensive discussion of current Environmental Protection Agency (EPA) requirements, including a lengthy section on retrofitting, has also been added to aid readers in mastering essential technical skills while developing their ability to execute repairs grounded in sound, professional judgment. Clear, precise learning objectives at the start of each chapter, as well as other proven pedagogical aids, are also used effectively throughout the book to propel readers to successful careers in the automotive air conditioning industry.

#### Automotive Heating and Air Conditioning

**Modern Automotive Technology**-James E. Duffy 1999-06-01 Modern Automotive Technology details the construction, operation, diagnosis, service, and repair of late-model automobiles and light trucks. This comprehensive text uses a building-block approach that starts with the fundamental principles of system operation and progresses gradually to complex diagnostic and service procedures. Short sentences, concise definitions, and thousands of color illustrations help students learn quickly and easily. The 2000 edition provides thorough coverage of the latest developments in the automotive field, including OBD II diagnostics, enhanced emissions testing, misfire monitoring, air bag systems, anti-lock brakes, and security systems. Organized around the eight ASE automobile test areas, this text is a valuable resource for students preparing for a career in automotive technology, as well as experienced technicians preparing for ASE Certification/Recertification Tests.

#### Automotive Heating and Air Conditioning

**TechOne**-Russell Carrigan 2006 Automotive heating and air conditioning systems have undergone massive changes in both system design and components as a result of growing concerns for the environment, varying consumer preferences, and industry changes. Geared to meet the needs of todays technicians, this book helps readers master the areas of electronics and emission control systems as well as the principles of refrigeration. TechOne: Automotive Heating and Air Conditioning is a modular, performance-based approach to understanding, diagnosing, and repairing mobile air conditioning systems. It looks at the theory behind the operation of the latest generation of heating and air conditioning systems, including how the theories are applied, and offers readers the opportunity to practice the skills that will enable them to compete in the air conditioning service market. Material is developed in accordance with NATEF guidelines, and takes into account all the criteria needed to adequately prepare readers for the ASE Heating and Air Conditioning Certification (A7) Exam.

#### Automotive Heating and Air Conditioning

**Shop Manual for Automotive Heating and Air Conditioning**-Boyce H. Dwiggins 1996

#### Automotive Heating and Air Conditioning

**Just Needs a Recharge**-Rob Siegel 2018-04-24 Air conditioning in vintage cars often falls into disrepair, as owners figure that it never really worked all that well when it was new, and assume that rejuvenation would be prohibitively expensive. In his new book, Just Needs a Recharge: The Hack Mechanic Guide to Vintage Air Conditioning, Rob Siegel details exactly what's needed to resurrect long-dead air conditioning in a vintage car, or install a/c in a car that never had it. In a level of detail not found in any other automotive a/c book, Rob reveals what you need to know about flare and o-ring fittings, upgrading to a rotary-style compressor and a parallel-flow condenser, making or specifying custom hoses, and selecting refrigerant so that the a/c blows cold enough to be usable. Although the book draws from Rob's BMW experience (with specifics for the BMW 2002 and 3.0CS), and concentrates on vintage a/c systems (those that have flare fittings and originally contained R12), most of the information applies to any air conditioning system, foreign or domestic, vintage or modern. Written in Rob's entertaining Hack Mechanic narrative voice, and including 240 photographs and illustrations, the book covers theory, the choice of refrigerant (R12, R134a, other EPA-approved, non-EPA-approved), legality, tools for a/c work, fittings and sizes, the compressor, the evaporator assembly and expansion valve or orifice tube, the condenser and fan, the receiver/drier or accumulator, electrical connections and compressor cycling, connecting and using manifold gauges, the basic steps for a/c rejuvenation, from-scratch a/c retrofit, making and installing hoses, flushing the system, pressure-testing and leak detection, evacuating and charging the system troubleshooting, and other things that heat up the cabin.

#### Automotive Heating and Air Conditioning

**Modern Refridgeration and Air Conditioning**-A. D. Althouse 2000-07-01 Modern Refrigeration and Air Conditioning provides an excellent blend of theory with job-qualifying skills, making it a leader in the refrigeration and air conditioning field! This comprehensive text teaches both fundamental principles and the service techniques needed to diagnose and remedy HVAC problems. Modern Refrigeration and Air Conditioning contains the most recent information and advances in the field needed to prepare the technician for success in today's world. This edition includes up-to-date material on EPA rules and regulations covering refrigerant recovery, recycling, and reclaiming. Both students and practicing technicians will benefit from the comprehensive approach of this text, which provides a solid and thorough knowledge of all aspects of refrigeration and air conditioning.

#### Automotive Heating and Air Conditioning

**Today's Technician**-Mark Schnubel 2012-02 This integrated, two-book set covers theory and hands-on content in separate Classroom and Shop Manuals, allowing students to learn fundamental climate control theory before applying their knowledge through practical, hands-on automotive work.

#### Automotive Heating and Air Conditioning

**Automotive Technician Training: Theory**-Tom Denton 2014-04-16 A blended learning approach to automotive engineering at levels one to three. 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 also ideal for exams run by other awarding bodies. Unlike the current textbooks on the market though, this title takes a blended learning approach, using interactive features that make learning more enjoyable as well as more effective. When linked with the ATT online resources it provides a comprehensive package that includes activities, video footage, assessments and further reading. Information and activities are set out in sequence so as to meet teacher and learner needs as well as qualification requirements. Tom Denton is the leading UK automotive author with a teaching career spanning lecturer to head of automotive engineering in a large college. His nine automotive textbooks published since 1995 are bestsellers and led to his authoring of the Automotive Technician Training multimedia system that is in common use in the UK, USA and several other countries.