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**Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles** [National Academies Press](#) The light-duty vehicle fleet is expected to undergo substantial technological changes over the next several decades. New powertrain designs, alternative fuels, advanced materials and significant changes to the vehicle body are being driven by increasingly stringent fuel economy and greenhouse gas emission standards. By the end of the next decade, cars and light-duty trucks will be more fuel efficient, weigh less, emit less air pollutants, have more safety features, and will be more expensive to purchase relative to current vehicles. Though the gasoline-powered spark ignition engine will continue to be the dominant powertrain configuration even through 2030, such vehicles will be equipped with advanced technologies, materials, electronics and controls, and aerodynamics. And by 2030, the deployment of alternative methods to propel and fuel vehicles and alternative modes of transportation, including autonomous vehicles, will be well underway. What are these new technologies - how will they work, and will some technologies be more effective than others? Written to inform The United States Department of Transportation's National Highway Traffic Safety Administration (NHTSA) and Environmental Protection Agency (EPA) Corporate Average Fuel Economy (CAFE) and greenhouse gas (GHG) emission standards, this new report from the National Research Council is a technical evaluation of costs, benefits, and implementation issues of fuel reduction technologies for next-generation light-duty vehicles. **Cost, Effectiveness, and Deployment of Fuel Economy Technologies for Light-Duty Vehicles** estimates the cost, potential efficiency improvements, and barriers to commercial deployment of technologies that might be employed from 2020 to 2030. This report describes these promising technologies and makes recommendations for their inclusion on the list of technologies applicable for the 2017-2025 CAFE standards. **Assessment of Fuel Economy Technologies for Light-Duty Vehicles** [National Academies Press](#) Various combinations of commercially available technologies could greatly reduce fuel consumption in passenger cars, sport-utility vehicles, minivans, and other light-duty vehicles without compromising vehicle performance or safety. **Assessment of Technologies for Improving Light Duty Vehicle Fuel Economy** estimates the potential fuel savings and costs to consumers of available technology combinations for three types of engines: spark-ignition gasoline, compression-ignition diesel, and hybrid. According to its estimates, adopting the full combination of improved technologies in medium and large cars and pickup trucks with spark-ignition engines could reduce fuel consumption by 29 percent at an additional cost of \$2,200 to the consumer. Replacing spark-ignition engines with diesel engines and components would yield fuel savings of about 37 percent at an added cost of approximately \$5,900 per vehicle, and replacing spark-ignition engines with hybrid engines and components would reduce fuel consumption by 43 percent at an increase of \$6,000 per vehicle. The book focuses on fuel consumption--the amount of fuel consumed in a given driving distance--because energy savings are directly related to the amount of fuel used. In contrast, fuel economy measures how far a vehicle will travel with a gallon of fuel. Because fuel consumption data indicate money saved on fuel purchases and reductions in carbon dioxide emissions, the book finds that vehicle stickers should provide consumers with fuel consumption data in addition to fuel economy information.

**Dilated Cardiomyopathy** This open access book presents a comprehensive overview of dilated cardiomyopathy, providing readers with practical guidelines for its clinical management. The first part of the book analyzes in detail the disease's pathophysiology, its diagnostic work up as well as the prognostic stratification, and illustrates the role of genetics and gene-environment interaction. The second part presents current and future treatment options, highlighting the importance of long-term and individualized treatments and follow-up. Furthermore, it discusses open issues, such as the apparent healing phenomenon, the early prognosis of arrhythmic events or the use of genetic testing in clinical practice. Offering a multidisciplinary approach for optimizing the clinical management of DCM, this book is an invaluable aid not only for the clinical cardiologists, but for all physicians involved in the care of this challenging disease. This work was published by Saint Philip Street Press pursuant to a Creative Commons license permitting commercial use. All rights not granted by the work's license are retained by the author or authors.

**Principles of Multimedia Database Systems** [Morgan Kaufmann](#) Until recently, databases contained easily indexed numbers and text. Today, in the age of powerful, graphically based computers, and the world wide web, databases are likely to contain a much greater variety of data forms, including images, sound, video clips, and even handwritten documents. When multimedia databases are the norm, traditional methods of working with databases no longer apply. How do you query a video library, or an image database containing x-rays, or sounds in an audio database? **Principles of Multimedia Database Systems** explains how to work with these new multimedia data forms. It is the first comprehensive treatment of the skills and techniques required to build, maintain, and query multimedia databases. This book presents the mix of techniques necessary for working with multimedia databases, including synthetic solutions for the design and deployment of multimedia database systems. Because rapid technological developments are constantly changing the landscape of multimedia databases, the book teaches basic theoretical principles applicable to any database. \* Covers the major issues of multimedia database design, with a strong focus on distributed multimedia databases. \* Discusses important topics including how to organize the vast data types, storage and retrieval, and creation and delivery of multimedia presentations. \* Organized around the lively scenario of a crime-fighting database that evolves as new concepts are introduced. \* Includes numerous exercises and suggestions for programming projects. \* Additional materials on the web include updates, on-line supplements, and links to downloadable software.

**Multimedia Database Management Systems** [Artech House Computing Library](#) Traditional database management systems can't handle the demands of managing multimedia data. with the rapid growth of multimedia platforms and the world wide web, database management systems must now process, store, index, and retrieve alphanumeric data, bitmapped and vector-based graphics, and video and audio clips both compressed and uncompressed. The comprehensive, systematic approach of **Multimedia Database Management Systems** presents you with current and emerging methods for managing the increasing demands of multimedia databases and their inherent design and architecture issues.

**Handbook of Thermal Management of Engines** [Springer Nature](#) This handbook deals with the vast subject of thermal management of engines and vehicles by applying the state of the art research to diesel and natural gas engines. The contributions from global experts focus on management, generation, and retention of heat in after-treatment and exhaust systems for light-off of NOx, PM, and PN catalysts during cold start and city cycles as well as operation at ultralow temperatures. This book will be of great interest to those in academia and industry involved in the design and development of advanced diesel and CNG engines satisfying the current and future emission standards. WHO global air quality guidelines particulate matter (PM2.5 and PM10), ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide [World Health Organization](#) The main objective of these updated global guidelines is to offer health-based air quality guideline levels, expressed as long-term or short-term concentrations for six key air pollutants: PM2.5, PM10, ozone, nitrogen dioxide, sulfur dioxide and carbon monoxide. In addition, the guidelines provide interim targets to guide reduction efforts of these pollutants, as well as good practice statements for the management of certain types of PM (i.e., black carbon/elemental carbon, ultrafine particles, particles originating from sand and duststorms). These guidelines are not legally binding standards; however, they provide WHO Member States with an evidence-informed tool, which they can use to inform legislation and policy. Ultimately, the goal of these guidelines is to help reduce levels of air pollutants in order to decrease the enormous health burden resulting from the exposure to air pollution worldwide.

**His Daddy: Damien Lexton** A lot of people want Damien Lexton. Rich, handsome, famous--he's the ideal man. An established businessman who came from a prestigious family, Damien is the perfect bachelor. He is well-respected and loved by his employees for being a kind and understanding boss. He knows how to treat his people right. But Damien Lexton hides a dark secret. And only Elias Graziano, a seventeen-year-old high school boy knows it.

**Aseptolin Traffic and Environment** [Springer](#) The automobile is one of the inventions that has made a decisive contribution to human mobility, and consequently it has become an inseparable part of modern human society. However, it is through this widespread use that its negative impacts on the environment have become so highly visible. Achievements in improving the ecological characteristics of the automobile are highly impressive: a modern car emits only a fraction of the amounts of noise and exhaust pollutants produced by its predecessors 30 years ago. The contributions to this book were written by experts, most of whom have been actively involved in the development of modern automobiles and their combustion engines for more than 30 years. They have participated in all phases of the ecological development of the automobile and summarize their experience and know-how in this book .

**Proceedings of the OAGM & ARW Joint Workshop 2016 Computer Vision and Robotics** May 11-13, 2016, Wels, Austria

**Genetic Cardiomyopathies A Clinical Approach** [Springer Science & Business Media](#) In the last decade, genetics has been emerging as a primary issue in the diagnosis and management of cardiomyopathies. This book is intended to be a state-of-the-art monograph on these diseases, describing their genetic causes, defining the molecular basis and presenting extensive descriptions of genotype-phenotype correlations. Other chapters are focused on the role of clinical observation, on ECG and echocardiography. With its highlight on the most recent discoveries in the field of molecular genetics as well as on the correct clinical approach to patients with heart muscle disease, the book is aimed at physicians and clinical cardiologists with a particular interest in myocardial diseases and in their genetic causes.

**Cardiac Regeneration** [Springer](#) This Volume of the series **Cardiac and Vascular Biology** offers a comprehensive and exciting, state-of-the-art work on the current options and potentials of cardiac regeneration and repair. Several techniques and approaches have been developed for heart failure repair: direct injection of cells, programming of scar tissue into functional myocardium, and tissue-engineered heart muscle support. The book introduces the rationale for these different approaches in cell-based heart regeneration and discusses the most important considerations for clinical translation. Expert authors discuss when, why, and how heart muscle can be salvaged. The book represents a valuable resource for stem cell researchers, cardiologists, bioengineers, and biomedical scientists studying cardiac function and regeneration.

**Multimedia Retrieval** [Springer Science & Business Media](#) Based on more than 10 years of teaching experience, Blanken and his coeditors have assembled all the topics that should be covered in advanced undergraduate or graduate courses on multimedia retrieval and multimedia databases. The single chapters of this textbook explain the general architecture of multimedia information retrieval systems and cover various metadata languages such as Dublin Core, RDF, or MPEG. The authors emphasize high-level features and show how these are used in mathematical models to support the retrieval process. For each chapter, there's detail on further reading, and additional exercises and teaching material is available online.

**Forensic Imaging A Practical Guide** [Springer](#) This superbly illustrated book examines all aspects of the use of modern post-mortem imaging in

forensic investigations, which has flourished since the introduction of multidetector computed tomography and magnetic resonance imaging. Readers will find guidance on the applications of all relevant imaging modalities and contrast media. Analogies and differences between forensic and clinical imaging are highlighted, and it is explained what lessons forensic imaging holds for clinical radiology, and vice versa. The remainder of the book comprehensively documents the typical "normal" post-mortem findings and the imaging presentations in various forms of trauma and nontraumatic forensic cases, including those in which medical liability may be an issue. The authors are radiologists and forensic radiologists from across the world who have extensive experience in post-mortem imaging. The book is primarily intended for forensic pathologists, radiologists, and radiographers seeking practical information on forensic imaging, but it will also be of interest to others, such as lawyers, who encounter this specialty during their professional activities.

**Object-relational DBMSs Tracking the Next Great Wave** [Morgan Kaufmann Pub](#) Discover why object-relational technology is ideal for supporting a broad spectrum of data types and application areas, from financial services to multimedia data. In this completely revised and updated edition, database experts Michael Stonebraker and Paul Brown explore the object-relational paradigm and examine the most recent developments in the field. Specifically written for database application programmers, database analysts, and IT managers, this book includes detailed information on how to classify DBMS applications, where object-relational DBMSs fit in the database world, and what mechanisms are required to support such an engine. \* Offers completely updated and expanded information" new and revised material discusses both the latest technology and the latest products. \* Presents a simple matrix for classifying and evaluating DBMSs so that you can make informed judgments about object-relational systems. \* Includes examples, tables, and tests to help you judge the quality and optimization of systems now on the market.

**Handbook of Statistics Machine Learning: Theory and Applications** [Newnes](#) Statistical learning and analysis techniques have become extremely important today, given the tremendous growth in the size of heterogeneous data collections and the ability to process it even from physically distant locations. Recent advances made in the field of machine learning provide a strong framework for robust learning from the diverse corpora and continue to impact a variety of research problems across multiple scientific disciplines. The aim of this handbook is to familiarize beginners as well as experts with some of the recent techniques in this field. The Handbook is divided in two sections: Theory and Applications, covering machine learning, data analytics, biometrics, document recognition and security. very relevant to current research challenges faced in various fields self-contained reference to machine learning emphasis on applications-oriented techniques

**Multimedia Data Management Using Metadata to Integrate and Apply Digital Media** [McGraw-Hill Companies](#) Here is the authoritative handbook on multimedia metadata and data management. In one volume, it gathers a wealth of information from the field's leading international experts in this emerging specialty. Multimedia data -- text, image, voice, and video -- poses unique challenges to product developers and database professionals in midsized to giant organizations. They need to know how multimedia can be effectively stored, accessed, and integrated into applications. The key is "metadata", which acts as an umbrella for multimedia data and allows it to be modeled and managed. In this invaluable guide, well-known contributors from the U.S., Japan, and Europe examine the metadata concept, present relevant standards, and discuss its global use in video databases, speech documents, satellite and medical imaging, and other applications.

**In Babylon A Novel** [Harper Perennial](#) First published in Holland to international critical acclaim, In Babylon is a story of storytelling -- a novel of universal, inescapable power. When Nathan Hollander and his niece Sophie find themselves trapped by snow in a house in the mountains, Nathan passes the time by recounting their family history. In this story within the story, Nathan's tale spans generations of a Jewish family as it wanders the globe: from Magnus, who began a twenty-one-year walk from Poland to Holland in 1648, to the itinerant clockmakers who followed him, to Manhattan's Project. Here are comic embarrassments, mystical puzzles, and grand adventure rolled together. Gloriously rich, quirky, and endlessly inventive, Marcel Möring's novel is epic on a very human scale.

**Clinical Echocardiography** [Springer Science & Business Media](#) Recently, much progress has been made with echocardiography and Doppler techniques and these ultrasound methods have grown in importance and reliability as non-invasive diagnostic procedures for many cardiovascular disorders. The objective of this textbook is to offer a detailed yet concise overview of the echocardiographic diagnosis of the various cardiovascular diseases. The book focuses upon the practical echocardiographic (including Doppler) examination. Accordingly, the fundamental principles of echocardiography and the Doppler techniques (pulsed and continuous wave and color flow mapping are covered briefly but comprehensively). A copious amount of representative figures and illustrations is included so that the reader is able to understand the clinical application of each modality in the various cardiovascular pathologies and the echocardiographic diagnosis. In keeping with the concept of an integrated echocardiographic examination, the two-dimensional, M-mode and Doppler echocardiographic findings are included in many of the diseases. Usually, the echocardiographic examination is approached first by two-dimensional imaging to give an understanding of the anatomical correlations, if necessary adding M-mode to clarify the time course of intracardiac movements, and secondly by each Doppler technique to evaluate the hemodynamic conditions. When familiar with these approaches, one can make not only the diagnosis of many cardiovascular diseases with echocardiography alone, but also the rational and expeditious management of patients. Today, some of the cardiac diseases (Atrial Myxoma, Atrial Septal Defect, Infective endocarditis and so forth) have been operated based only on echocardiographic findings.