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Materials Research Agenda for the Automotive Industry

General and specific materials research opportunities were determined for the automotive industry using the 50-mpg, 5-passenger sedan as a basis for analysis. The general finding highlights the need for developing a materials-systems methodology and for approaching research issues in terms of the materials life cycle. The specific findings address advanced materials candidates and corresponding research needs for the major component subsystems of the vehicle.

NEED FOR MATERIALS-SYSTEMS APPROACH

Improved materials and materials processing can and must play a large role in generating productive and effective responses to the forces that will drive the automotive industry in the future. However, these forces often pull in diverse directions when specific technological actions are considered. For example, aluminum alloys can be used to reduce vehicle weight, thereby reducing emissions and improving fuel economy, but the added materials costs currently offset these advantages for many applications. As a result, steel is still the major material of choice for automobile construction today and will be difficult to supplant for the foreseeable future.

Materials Research Agenda For The Automotive And Aircraft Industries

Daniel F McAuley



Materials Research Agenda For The Automotive And Aircraft Industries:

Materials Research Agenda for the Automobile and Aircraft Industries National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Commission on Engineering and Technical Systems, Committee on Materials for the 21st Century, 1993-02-01 This volume presents a materials research agenda for the commercial aircraft and automobile industries for the next two decades Two case studies are used as a basis for discussion the 50 mile per gallon 5 passenger sedan and the high speed civil transport Also identified are those general materials drivers and the materials research required for each field

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Federal research and technology for aviation. , Use of Lightweight Materials in 21st Century Army Trucks National Research Council, Division on Engineering and Physical Sciences, National Materials Advisory Board, Committee on Lightweight Materials for 21st Century Army Trucks, 2003-04-02 In order to achieve the Army's envisioned Objective Force related to deployability transportability and mobility the Committee on Lightweight Materials for the 21st Century Army Trucks was asked to identify research and technology development opportunities related to the introduction of new lightweight structural materials for light medium and heavy Army trucks

Commercialization of New Manufacturing Processes for Materials , 1998

Federal Research and Technology for Aviation United States. Congress. Office of Technology Assessment, 1994

Combat Vehicle Weight Reduction by Materials Substitution National Academies of Sciences, Engineering, and Medicine, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Defense Materials Manufacturing and Infrastructure Standing Committee, 2018-11-12 Vehicle weight reduction is an effective strategy for reducing fuel consumption in civilian vehicles For combat vehicles it presents not only an important opportunity to reduce fuel use and associated logistics but also important advantages in transport and mobility on the battlefield Although there have been numerous efforts in the past to reduce the overall weight of combat vehicles combat vehicle weight has continued to increase over time due to new threats and missions On December 8 and 9 2014 the National Academies of Sciences Engineering and Medicine held a workshop to explore opportunities in lightweight materials for armored vehicles This was the ninth workshop in an ongoing series for the U S military on materials and manufacturing issues The workshop discussed future advances in weight reduction by materials substitution for vehicles including such topics as armor structure automotive parts and armaments This publication summarizes the presentations and discussions

from the workshop Industry, Trade, and Technology Review, 1997 Advanced automotive technology : visions of a super-efficient family car., Advanced Fire-safe Aircraft Materials Research Program Richard E. Lyon, 1996 **Catalog of Selected NMAB Reports** National Research Council (U.S.). Commission on Sociotechnical Systems. National Materials Advisory Board, 1996 The Cumulative Book Index, 1995 A world list of books in the English language Publications Catalog National Research Council (U.S.). Transportation Research Board, 1997 State/Industry/University Cooperative Research Centers Symposium, 1998 **Fire-resistant Materials** Richard E. Lyon, 1997 This report provides an overview of the research being conducted by the Federal Aviation Administration FAA to develop fire safe cabin materials for commercial aircraft The objective of the Fire Resistant Materials program is to eliminate burning cabin materials as a cause of death in aircraft accidents Long term activities include the synthesis of new thermally stable low fuel value organic and inorganic polymer systems The synthesis effort is supported by fundamental research to understand polymer combustion and fire resistance mechanisms using numerical and analytic modeling and the development of new characterization techniques **Aluminum Alloys**, 1998 Publications - Transportation Research Board National Research Council (U.S.). Transportation Research Board, 1996 **Advances in Structural Dynamics** Hong Kong Polytechnic University. Department of Civil and Structural Engineering, 2000 Hardbound The International Conference on Advances in Structural Dynamics was organised by the Department of Civil and Structural Engineering The Hong Kong Polytechnic University and held in Hong Kong from 13 15 December 2000 The Conference aimed to provide an international forum for scientists researchers engineers and other professionals to present and discuss recent advances in the theory and application of structural dynamics These two volumes of proceedings contain 10 invited keynote papers 40 special theme papers and 134 contributed papers from over 20 countries around the world These papers cover a wide spectrum of topics dynamics of bridges dynamics of special structures and members earthquake engineering health monitoring and damage detection nonlinear and stochastic dynamics vibration control and smart materials and wind engineering *Automotive Industries, the Automobile*, 1930 **Automotive and Aviation Industries**, 1945

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