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Titolo	Advanced materials in automotive engineering [[electronic resource] /] / edited by Jason Rowe
Pubbl/distr/stampa	Philadelphia, Pa., : Woodhead Pub., 2012
ISBN	0-85709-546-3
Descrizione fisica	1 online resource (353 p.)
Collana	Woodhead Publishing in materials Advanced materials in automotive engineering
Altri autori (Persone)	RoweJason
Disciplina	629.23
Soggetti	Automobiles - Design and construction Automobiles - Materials Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Advanced materials in automotive engineering; Copyright; Contents; Contributor contact details; 1 Introduction: advanced materials and vehicle lightweighting; 1.1 References; 2 Advanced materials for automotive applications: an overview; 2.1 Introduction; 2.2 Steels; 2.3 Light alloys; 2.4 Stainless steels; 2.5 Castiron; 2.6 Composite materials; 2.7 Glazing materials; 2.8 Conclusions; 2.9 References; 3 Advanced metal-forming technologies for automotive applications; 3.1 Formability; 3.2 Forming technology; 3.3 Modelling; 3.4 Economic considerations; 3.5 Bibliography 4 Nanostructured steel for automotive body structures 4.1 Introduction; 4.2 Potential demand for nanostructured steels for automotive body structures; 4.3 Fabricating nanostructured low-C steel sheets; 4.4 Improving elongation in nanostructured steel sheets; 4.5 Crash-worthiness of nanostructured steel sheets; 4.6 Conclusions; 4.7 References; 4.8 Appendix; 5 Aluminium sheet for automotive applications; 5.1 Introduction; 5.2 Sheet alloys for outer applications; 5.3 Sheet alloys for inner closure panels and structural applications; 5.4 Fusion alloys; 5.5 Surface treatment of the aluminium strip 5.6 Future trends 5.7 References; 6 High-pressure die-cast (HPDC) aluminium alloys for automotive applications; 6.1 Introduction; 6.2 AISi heat-treatable alloys - Silafont-36; 6.3 AlMg non heat-treatable alloys

- Magsimal-59; 6.4 AlSi non heat-treatable alloys - Castasil-37; 6.5 Automotive trends in die-casting; 6.6 References; 7 Magnesium alloys for lightweight power trains and automotive bodies; 7.1 Introduction; 7.2 Cast magnesium; 7.3 Sheet magnesium; 7.4 Extruded magnesium; 7.5 Future trends; 7.6 Acknowledgments; 7.7 References
8 Polymer and composite moulding technologies for automotive applications 8.1 Introduction; 8.2 Polymeric materials used in the automotive industry; 8.3 Composite processing procedures; 8.4 Fields of application for fibre-reinforced polymer composites (FRPCs); 8.5 Further challenges for composites in the automotive industry; 8.6 References; 9 Advanced automotive body structures and closures; 9.1 Current technology, applications and vehicles; 9.2 Key factors driving change and improvements; 9.3 Trends in material usage; 9.4 Latest technologies; 9.5 References
10 Advanced materials and technologies for reducing noise, vibration and harshness (NVH) in automobiles 10.1 Introduction; 10.2 General noise, vibration and harshness (NVH) abatement measures; 10.3 Selected concepts for noise, vibration and harshness (NVH) control; 10.4 Applications; 10.5 Conclusions; 10.6 Acknowledgements; 10.7 References; 11 Recycling of materials in automotive engineering; 11.1 End of life vehicles (ELVs); 11.2 Reuse, recycle or recover?; 11.3 Environmental impact assessment tools; 11.4 Case study - the World First racing car; 11.5 Conclusions; 11.6 References
12 Joining technologies for automotive components

Sommario/riassunto

The automotive industry is under constant pressure to design vehicles capable of meeting increasingly demanding challenges such as improved fuel economy, enhanced safety and effective emission control. Drawing on the knowledge of leading experts, Advanced materials in automotive engineering explores the development, potential and impact of using such materials. Beginning with a comprehensive introduction to advanced materials for vehicle lightweighting and automotive applications, Advanced materials in automotive engineering goes on to consider nanostructured steel for automotive body

2. Record Nr.	UNINA9910783460703321
Titolo	Where is the wealth of nations? : : measuring capital for the 21st century
Pubbl/distr/stampa	Washington, D.C. : , : The World Bank, , c2006
ISBN	1-280-28224-X 9786610282241 0-8213-6355-7
Descrizione fisica	xx, 188 pages : illustrations ; ; 24 cm
Altri autori (Persone)	HamiltonKirk <1951->
Disciplina	338.9/27/015195
Soggetti	Sustainable development - Econometric models Wealth - Econometric models Economic indicators Environmental indicators Saving and investment - Econometric models Human capital - Econometric models
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Extends and expands the work done in Expanding the measure of wealth (World Bank, 1997) to provide a comprehensive snapshot of wealth for 120 countries at the turn of the millennium.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	TABLE OF CONTENTS; Foreword; Acknowledgments; Acronyms and Abbreviations; Looking for the Wealth of Nations-A Logical Map; Executive Summary; Part 1-Wealth Accounting; Chapter 1. Introduction: The Millennium Capital Assessment; Chapter 2. The Wealth Stock Estimates; Part 2-Changes in Wealth; Chapter 3. Recent Genuine Saving Estimates; Chapter 4. The Importance of Investing Resource Rents: A Hartwick Rule Counterfactual; Chapter 5. The Importance of Population Dynamics: Changes in Wealth per Capita; Chapter 6. Testing Genuine Saving; Part 3-Wealth, Production, and Development Chapter 7. Explaining the Intangible Capital Residual: The Role of Human Capital and Institutions Chapter 8. Wealth and Production; Part 4-International Experience; Chapter 9. Developing and Using Environmental Accounts; Appendixes: Sources and Methods; Appendix 1. Building the Wealth Estimates; Appendix 2. Wealth Estimates by

Country, 2000; Appendix 3. Genuine Saving Estimates by Country, 2000; Appendix 4. Change in Wealth per Capita, 2000; References; Index

Sommario/riassunto

The book presents estimates of total wealth for nearly 120 countries, using economic theory to decompose the wealth of a nation into its component pieces: produced capital, natural resources and human resources. The wealth estimates provide a unique opportunity to look at economic management from a broader and comprehensive perspective. The book's basic tenet is that economic development can be conceived as a process of portfolio management, so that sustainability becomes an integral part of economic policy making. The rigorous analysis, presented in accessible format, tackles issues such as g
