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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
