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alloy sheet for autobody outer panels -- Microchemistry and microstructural aspects leading to stress corrosion cracking in AA508 -- Ductility and bendability in 6000 series automotive alloys -- The effect of pre-aging on artificial aging response in Al-Mg-Si-Cu alloy 6111 -- Effects of minor Sc and Zr additions on commercial Al-Mg-Mn alloys -- Age hardening behavior in a commercial 319-type aluminum alloy -- The optimized tensile and fatigue properties of semi-solid 357 and modified 319 aluminum automotive parts -- Mechanisms of soldering in high pressure die casting of Al-11SiCu-Fe alloy -- Friction stir welding magnesium alloys -- Roll forming technology for manufacturing axisymmetric automotive components - II: application to fabrication of Al V96Ts3 and 295 cast alloy wheels -- Optimisation of the quality of high pressure die cast magnesium alloys -- High-cycle fatigue crack initiation site distribution in A356.2.

Sommario/riassunto

A discussion of the most recent developments in aluminum and magnesium alloys application in the automotive market, these proceedings cover physical and process metallurgy of aluminum and magnesium castings, extrusions, composites, and sheet; alloy processing; structure and properties characterization; commercial and pilot applications in the automotive market; and technology and performance.
