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Nota di contenuto	Preface; Introduction; Design and material utilization; Materials for consideration and use in automotive body structures; The role of demonstration, concept and competition cars; Component manufacture; Component assembly: materials joining technology; Corrosion and protection of the automotive structure; Environmental considerations; Future trends in automotive body materials; Index
Sommario/riassunto	The selection of automobile body materials is fundamental to the choice of fabrication method, and the characteristics and performance of the final vehicle or component. The factors behind these choices comprise some of the key technological and design issues facing automotive engineers today. Materials for Automobile Bodies presents detailed up-to-date information on material technologies for the automobile industry, embracing steels (including high-strength steels) aluminium, plastics, magnesium, hydro-forming and composite body panels. Coverage also includes: materials processing; formability; welding and joining; anti-corrosion technologies; plus a comprehensive consideration of the implications of materials selection on these processes. Dealing with the whole assembly process from raw material to production, right through to recycling at the end of a vehicle's life, this book is the essential resource for practising engineers, designers, analysts and students involved in the design and specification of motor

vehicle bodies and components. * Up-to-date information on contemporary autobody materials * International case studies, examples and terminology * Fully illustrated throughout, with examples from Honda, Ferrari, Lotus, BMW and Audi
