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| Autore                  | Davies Geoff   |
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| Livello bibliografico   | Monografia   |
| Note generali           | Description based upon print version of record.  |
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| Nota di contenuto       | Front Cover; Materials for Automobile Bodies; Copyright; Contents; Acknowledgements; Chapter1 Introduction; 1.1INTRODUCTION; 1.2 OVERVIEW OF CONTENT; 1.3MATERIALS OVERVIEW; 1.4GENERAL FORMAT OF PRESENTATION; 1.5INTRODUCTION TO BODY ARCHITECTURE AND TERMINOLOGY; References; Chapter 2 Design and material utilization; OBJECTIVE; CONTENT; 2.1INTRODUCTION; 2.2 HISTORICAL PERSPECTIVE AND EVOLVING MATERIALS TECHNOLOGY; 2.3FINITE ELEMENT ANALYSIS; 2.4ONE MANUFACTURER'S APPROACH TO CURRENT DESIGN; 2.5PANEL DENT RESISTANCE AND STIFFNESS TESTING; 2.6FATIGUE; 2.7ALTERNATIVE BODY ARCHITECTURE 2.8INTEGRATION OF MATERIALS INTO DESIGNS2.9ENGINEERING REQUIREMENTS FOR PLASTIC AND COMPOSITE COMPONENTS; 2.10 COST ANALYSIS; LEARNING POINTS; References; Chapter3 Materials for consideration and use in automotive body structures; OBJECTIVE; CONTENT; 3.1INTRODUCTION; 3.2MATERIAL CANDIDATES AND SELECTION CRITERIA; 3.3STEEL; 3.4ALUMINUM; 3.5MAGNESIUM; 3.6 POLYMERS AND COMPOSITES; 3.7REPAIR; LEARNING POINTS; References; Chapter 4 The role of demonstration, concept and |

competition cars; OBJECTIVE; CONTENT; 4.1INTRODUCTION; 4.2THE ECV 3 AND ASVT; 4.3COLLABORATIVE DEVELOPMENT PROGRAMS 4.4CONCEPT CARS4.5COMPETITION CARS; 4.6RALLY CARS; 4.7 HYPERCARS; LEARNING POINTS; References; Chapter5 Component manufacture; OBJECTIVE; CONTENT; 5.1STEEL FORMABILITY; 5.2 ALUMINUM FORMABILITY; 5.3MANUFACTURE OF COMPONENTS IN MAGNESIUM; 5.4PRODUCTION OF POLYMER PARTS; LEARNING POINTS; References; Chapter 6 Component assembly: materials joining technology; OBJECTIVE; CONTENT; 6.1INTRODUCTION; 6.2WELDING; 6.3ADHESIVE BONDING; 6.4WELDBONDING; 6.5MECHANICAL FASTENING; LEARNING POINTS; References; Chapter 7 Corrosion and protection of the automotive structure; OBJECTIVE; CONTENT; 7.1 INTRODUCTION 7.2RELEVANT CORROSION PROCESSES7.3EFFECTIVE DESIGN PRINCIPLES; 7.4MATERIALS USED FOR PROTECTION OF THE BODY STRUCTURE; 7.5 EMPIRICAL VEHICLE AND LABORATORY COMPARISONS; 7.6 INTRODUCTION TO ELECTROCHEMICAL METHODS; LEARNING POINTS; References; Chapter 8 Environmental and safety considerations; OBJECTIVE; CONTENT; 8.1INTRODUCTION; 8.2EFFECT OF BODY MASS AND EMISSIONS CONTROL; 8.3LIFE-CYCLE ANALYSIS; 8.4RECYCLING AND ELV CONSIDERATIONS; 8.5HYGIENE; 8.6BIW DESIGN FOR SAFETY; LEARNING POINTS; References; Chapter9 Future trends in automotive body materials; OBJECTIVE; CONTENT; 9.1INTRODUCTION 9.2GEOGRAPHIC ASPECTS9.3QUANTITATIVE ASSESSMENT; 9.4FACTORS INFLUENCING MATERIAL CHANGE IN THE FUTURE; 9.5COMBINED EFFECT OF FACTORS ON MATERIALS UTILIZATION WITHIN 'EXPECTED' AND 'ACCELERATED' TIMESCALES; LEARNING POINTS; References; Index

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#### 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 brings together a wealth of information on automotive materials and material technologies to provide designers and vehicle body engineers with both a solid grounding and a quick reference to inform their material choices. Coverage includes materials processing, formab

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| 2. Record Nr.           | UNINA9910163204503321  |
| Autore                  | Labaume Eugene   |
| Titolo                  | A Circumstantial Narrative Of The Campaign In Russia   |
| Pubbl/distr/stampa      | San Francisco : , : Wagram Press, , 2013<br>©2013  |
| ISBN                    | 9781782890201<br>1782890203  |
| Edizione                | [1st ed.]  |
| Descrizione fisica      | 1 online resource (174 pages)  |
| Altri autori (Persone)  | Anon   |
| Soggetti                | Napoleonic Wars, 1800-1815<br>Military campaigns   |
| Lingua di pubblicazione | Inglese  |
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| Livello bibliografico   | Monografia   |
| Nota di contenuto       | Intro -- Contents -- TRANSLATOR'S PREFACE. -- AUTHOR'S PREFACE<br>-- PART I. -- BOOK I. - WILNA -- BOOK II. - WITEPSK. -- BOOK V.-<br>MOSCOW -- PART II. -- BOOK X. - THE NIEMEN.  |
| Sommario/riassunto      | Eugene Labaume's narrative provides a detailed, firsthand account of the disastrous French campaign in Russia during 1812. As a captain of the Royal Geographical Engineers and an eye-witness, Labaume records the harrowing experiences of the troops, highlighting the strategic failures and human suffering caused by Napoleon's ambition. The book includes descriptions of key battles such as the Moskva and Malo-Jaroslavitz, and the retreat across the Beresina River. Labaume's objective is to faithfully document the events and the severe conditions faced by the soldiers, which he recounts with simplicity and candor. The narrative also serves as a cautionary tale against the perils of unchecked ambition and war. This edition, translated from French, is enriched with additional notes and illustrations, making it accessible to modern readers interested in military history and the Napoleonic Wars. |