Record Nr. UNINA9910795203603321 Autore Bullen George N. Titolo Economics of composites / / by George N. Bullen, Carroll Grant, Dan Day, Alan Hiken, David Champa Warrendale, Pa. (400 Commonwealth Dr., Warrendale PA USA):,: Pubbl/distr/stampa Society of Automotive Engineers, , [2015] **ISBN** 1-5231-2423-7 0-7680-8856-9 Descrizione fisica 1 online resource (xx, 217 pages) : color illustrations Society of Automotive Engineers. Electronic publications Collana 338.4/7620118 Disciplina Composite materials - Economic aspects Soggetti Airplanes - Materials - Technological innovations - Costs Composite materials in automobiles - Costs Composite materials industry TECHNOLOGY & ENGINEERING / Materials Science / General TECHNOLOGY & ENGINEERING / Aeronautics & Astronautics TECHNOLOGY & ENGINEERING / Automotive BUSINESS & ECONOMICS / Economics / General Materials science Aerospace and aviation technology **Astronautics** Automotive technology and trades **Economics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Nota di contenuto Foreword -- Preface -- Acknowledgments -- Chapter 1. Introduction -- Chapter 2. Influencing the economics of composite structure assembly -- Chapter 3. The impact of composites on assemblies: the multivariate random variable -- Chapter 4. Integrated structural health monitoring, embedded sensors, and composites--manufacturing --Chapter 5. Integrated structural health monitoring, embedded sensors,

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Sommario/riassunto

The authors of this book explore the affordability of composites ranging from raw material to end-of life disposal costs. The material characteristics, applications, and complex manufacturing to meet the demand for composites depend on many factors. Industry strives to provide customers with products that provide economic efficiencies. Manufacturing processes and development sustain product innovation and foster economic growth and the integration of automation and focus on productivity and achievement of quality improvements. This book captures this interaction and their influences on the composite marketplace"--Provided by publisher.