

- | | |
|-------------------------|--|
| 1. Record Nr. | UNINA9910137670603321 |
| Titolo | Superconductivity : Theory and Applications // edited by Adir Luiz |
| Pubbl/distr/stampa | Croatia : , : IntechOpen, , 2011 |
| ISBN | 953-51-4904-0 |
| Descrizione fisica | 1 online resource (362 pages) : illustrations |
| Disciplina | 537.623 |
| Soggetti | Superconductivity |
| Lingua di pubblicazione | Inglese |
| Formato | Materiale a stampa |
| Livello bibliografico | Monografia |
| Nota di bibliografia | Includes bibliographical references. |
-
- | | |
|--------------------|---|
| 2. Record Nr. | UNINA9910682565303321 |
| Titolo | Future Automotive Production Conference 2022 // edited by Klaus Dröder, Thomas Vietor |
| Pubbl/distr/stampa | Wiesbaden : , : Springer Fachmedien Wiesbaden : , : Imprint : Springer Vieweg, , 2023 |
| ISBN | 3-658-39928-7 |
| Edizione | [1st ed. 2023.] |
| Descrizione fisica | 1 online resource (VII, 266 p. 161 illus., 128 illus. in color.) |
| Collana | Zukunftstechnologien für den multifunktionalen Leichtbau, , 2524-4795 |
| Disciplina | 620.0042 |
| Soggetti | Engineering design
Industrial engineering
Production engineering
Light construction
Steel construction
Lightweight construction
Materials - Analysis
Mechanical engineering
Materials science
Engineering Design
Industrial and Production Engineering
Light-weight Construction, Steel and Timber Construction
Characterization and Analytical Technique |

Mechanical Engineering

Materials Science

Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	<p>A quantitative method for the investigation of digitized surfaces after fine milling machining -- Fatigue life of refurbished fiber reinforced thermoplastics -- Manufacturing of lightweight parts by sandwich foam injection moulding using recycled thermoplastics -- Innovative design concept for the safety of battery housing -- Thermocouple fabrication by cold plasma spray -- A variability model for individual life cycle paths in life cycle engineering -- Increase the resource efficiency by evaluation of the effects of deep rolling within the design and manufacturing phase -- Approaching a smart, and sustainable interior for future mobility solutions -- Fast curing biobased epoxy hardener for rtm applications -- Investigation on the bond performance in hybrid wood-plastic components -- Atmospheric pressure plasma sources for additive manufacturing -- Design freedoms of lattice structures for interlock bonding -- Assisted facility layout planning for sustainable automotive assembly -- Assembly and through life services in the context of urban cloud manufacturing -- AI-based performance prediction and its application on the design and simulation of cooling plates for battery electric vehicles -- Innovative module design with active and passive cooling of traction batteries -- Contribution to the optimization of metal-composite lightweight structures in context of digital linked development processes -- Cluster of excellence living, adaptive and energy-autonomous materials systems (livmats) -- Potentials and design of a virtual production system for intelligent battery cell manufacturing.</p>
Sommario/riassunto	<p>This book comprises the proceedings of the conference "Future Automotive Production 2022", which took place in Wolfsburg. The conference focused on hybrid lightweight design, which is characterized by the combination of different materials with the aim of improving properties and reducing weight. In particular, production technologies for hybrid lightweight design were discussed, new evaluation methods for the ecological assessment of hybrid components were presented and future-oriented approaches motivated by nature for the development of components, assemblies and systems were introduced. Lightweight design is a key technology for the development of sustainable and resource-efficient mobility concepts. Vehicle manufacturers operate in an area of conflict between customer requirements, competition and legislation. Material hybrid structures, which combine the advantages of different materials, have a high potential for reducing weight, while simultaneously expanding component functionality. The future, efficient use of function-integrated hybrid structures in vehicle design requires innovations and constant developments in vehicle and production technology. There is a great demand, especially with regard to new methods and technologies, for "affordable" lightweight construction in large-scale production, taking into account the increasing requirements with regard to variant diversity, safety and quality. The Editors Prof. Dr.-Ing.</p>

Klaus Dröder is Professor of Manufacturing Technologies and Process Automation, as well as Head of the Institute for Machine Tools and Production Technology (IWF) at the Technische Universität Braunschweig. He is also a member of the board of the Open Hybrid LabFactory. His research interests include technological and automation issues in current and future process chains, with a focus on the implementation of production strategies that enable the efficient and flexible manufacture of functionalized products. Prof. Dr.-Ing. Thomas Vietor is Head of the Institute for Engineering Design (IK) at the Technische Universität Braunschweig as well as a member of the board of the Open Hybrid LabFactory. His research focuses on the integration of product development and production technology, the integration of product development and industrial design, and the use and further improvement of CAx processes in product development.
