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Collana	Lecture Notes on Multidisciplinary Industrial Engineering, , 2522-5022
Disciplina	620.0042
Soggetti	Manufactures Engineering design Fluid mechanics Computer-aided engineering Physics Manufacturing, Machines, Tools, Processes Engineering Design Engineering Fluid Dynamics Computer-Aided Engineering (CAD, CAE) and Design Numerical and Computational Physics, Simulation
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	1. Additive manufacturing -- 2. Design, optimization and allied themes -- 3. Structural analysis -- 4. Fatigue and fracture mechanics -- 5. Computational fluid dynamics -- 6. Multi-body and multiphysics simulation -- 7. Applications and case studies in aerospace, automotive, foundry, tooling, and manufacturing.
Sommario/riassunto	This book consists of selected peer-reviewed papers presented at the NAFEMS India Regional Conference (NIRC 2018). It covers current topics related to advances in computer aided design and manufacturing. The book focuses on the latest developments in engineering modelling and simulation, and its application to various complex engineering systems. Finite element method/finite element analysis, computational fluid dynamics, and additive manufacturing are some of the key topics

covered in this book. The book aims to provide a better understanding of contemporary product design and analyses, and hence will be useful for researchers, academicians, and professionals. .
