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Titolo	Innovative design, analysis and development practices in aerospace and automotive engineering : proceedings of I-DAD 2020 // Nicolas Gascoin, E. Balasubramanian
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Descrizione fisica	1 online resource (XIII, 571 p. 371 illus., 292 illus. in color.)
Collana	Lecture Notes in Mechanical Engineering, , 2195-4356
Disciplina	620.0042
Soggetti	Engineering design Industrial and Production Engineering Automobiles - Design and construction Motor vehicles - Design and construction
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	3D Digitizing Practice-Advantage In Reverse Engineering With Accuracy boost -- Cell Arrangement Measurement – A Perfect Usage of Cell Fabricating Framework in an industry -- CFD Analysis on Extrusion of Slurry in Direct Ink Writing -- Numerical Investigation on Optimized Convergent Divergent Nozzle in 3S Separator Device -- Thermal Distribution on Gas Turbine Blade Using Thermal Paint -- Synthesis and Characterization of 17 Cr Ferritic ODS Steel Developed through Vacuum Hot Pressing -- Aerodynamic Analysis of Manta Ray inspired Micro Air Vehicle Wing Planforms -- Study of Gas Centered Coaxial Injector using Jet in a Cross-flow Mechanism -- A Contemporary Review on Knee Injuries and Protective Pads -- Development of Analytical Method for Mass Flow Measurement in a Porous Channel.
Sommario/riassunto	This book gathers the best articles presented by researchers and industrial experts at the International Conference on “Innovative Design, Analysis and Development Practices in Aerospace and Automotive Engineering (I-DAD 2020)”. The papers discuss new design concepts, and analysis and manufacturing technologies, with a focus on achieving improved performance by downsizing; improving the

strength-to-weight ratio, fuel efficiency and operational capability at room and elevated temperatures; reducing wear and tear; addressing NVH aspects, while balancing the challenges of Euro VI/Bharat Stage VI emission norms, greenhouse effects and recyclable materials. Presenting innovative methods, this book is a valuable reference resource for professionals at educational and research organizations, as well as in industry, encouraging them to pursue challenging projects of mutual interest.
