1. Record Nr. UNINA9910799482503321 Autore Öchsner Andreas **Titolo** Collaborative Research Advancing Engineering Solutions for Real-World Challenges [[electronic resource]]: The 2023 Postgraduate Seminar in Esslingen / / edited by Andreas Öchsner Cham:,: Springer Nature Switzerland:,: Imprint: Springer,, 2024 Pubbl/distr/stampa **ISBN** 3-031-48521-1 Edizione [1st ed. 2024.] Descrizione fisica 1 online resource (203 pages) Collana Proceedings in Technology Transfer, , 2948-233X Disciplina 670 Soggetti Industrial engineering Production engineering Vehicles Mathematics - Data processing Mechanics, Applied Industrial and Production Engineering Vehicle Engineering Computational Mathematics and Numerical Analysis **Engineering Mechanics** Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia On the Lightweight Characterization of Materials and Structures --Nota di contenuto From Raw Data to Master Curve - Improving the Time-Temperature Superposition Process Using Geometrical Properties of Temperature-Frequency Sweeps -- Development of a Lightweight Connection Rod for Motorbikes Fabricated with Hybrid Manufacturing -- Laser Polishing of PBF-LB Fabricated AlSi10Mg – Achievable Surface Quality and

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Sommario/riassunto

Buckling of Beams and Plates. Theoretical Foundations for the Structural Analysis According to Eurocode 3 -- Researching an Assisted Injection Molding Process using Artificial Intelligence -- Thermal Anisotropy Using the Hot Disk Method.

This book presents the research outcomes from cooperative projects with industrial partners. It showcases the practical relevance of the research, features the knowledge exchange. The papers cover a wide range of engineering disciplines, highlighting the impact of these collaborations in addressing real-world challenges and advancing technological developments.