

1. Record Nr.	UNINA9910743265903321
Titolo	Recent Trends in Engineering Design : Select Proceedings of ICCEMME 2021 // edited by Bangarubabu Popuri, Amit Tyagi, N. R. Chauhan, Ashish Gupta
Pubbl/distr/stampa	Singapore : , : Springer Nature Singapore : , : Imprint : Springer, , 2022
ISBN	9789811629006 9811629005 9789811628993 9811628998
Edizione	[1st ed. 2022.]
Descrizione fisica	1 online resource (xii, 121 pages) : color illustrations, charts
Collana	Lecture Notes in Mechanical Engineering, , 2195-4364
Disciplina	621
Soggetti	Engineering design Computer-aided engineering Computer simulation Engineering Design Computer-Aided Engineering (CAD, CAE) and Design Computer Modelling
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Bondgraph Analysis of Dynamic Interaction between the Concrete Slab and Subgrade for High Speed Track -- Identification of Damping in Sandwich Beam -- Effect of Groove Dimensions on Pressure Profile of Twin Axial Groove Hybrid Journal Bearing -- Method of Obtaining Planar State of Stress Using Mohr's Circle- Some Typical cases -- Computational modeling of bubble formation on submerged orifice -- Design and Development of a Multivariant Exercise Ma-chine (MEM) for the patients suffering from spine-related problems -- Parametric Study and Optimization in Deep Drawing of Head light Reflector -- Numerical Simulation of a Race Car Wing Operating in the Wake of Leading Vehicle with Varying Diffuser Angles.
Sommario/riassunto	This book presents the select proceedings of the 3rd International Conference on Computational and Experimental Methods in Mechanical

Engineering (ICCEMME 2020). The book discusses the recent researches and concrete findings in the field of mechanical design and automation with its allied branches. Various topics covered in this book include modeling and simulation, application of modelling to complex real-world systems, application of machine or deep learning in mechanical problems, artificial intelligence, vehicle design, robotics, vehicle dynamics and control, biomechanics, and vibration-related problems. Given its content, the book will be useful for beginners, researchers, and professionals interested in the field of mechanical engineering. .
