



1st ed. 2020, XIX, 407 p. 202 illus., 109  
illus. in color.

### Printed book

Softcover

169,99 € | £149.99 | \$219.99

<sup>[1]</sup>181,89 € (D) | 186,99 € (A) | CHF  
200,50

### eBook

139,09 € | £119.50 | \$169.00

<sup>[2]</sup>139,09 € (D) | 139,09 € (A) | CHF  
160,00

Available from your library or  
[springer.com/shop](https://www.springer.com/shop)

### MyCopy <sup>[3]</sup>

Printed eBook for just

€ | \$ 24.99

[springer.com/mycopy](https://www.springer.com/mycopy)

V. Ivanov, I. Pavlenko, O. Liaposhchenko, J. Machado, M. Edl (Eds.)

# Advances in Design, Simulation and Manufacturing III

Proceedings of the 3rd International Conference on Design, Simulation,  
Manufacturing: The Innovation Exchange, DSMIE-2020, June 9-12, 2020,  
Kharkiv, Ukraine – Volume 2: Mechanical and Chemical Engineering

Series: Lecture Notes in Mechanical Engineering

- Reports on computational methods in mechanical and chemical engineering
- Describes advanced findings relating to the mechanics of solids and structures
- Discusses energy-efficient technologies and their industrial applications

This book explores topics at the interface between mechanical and chemical engineering, with a focus on design, simulation, and manufacturing. Covering recent developments in the mechanics of solids and structures; numerical simulation of coupled problems, including wearing, compression, detonation and collision; and chemical process technologies, including ultrasonic technology, capillary rising process, pneumatic classification, membrane electrolysis and absorption processes, it reports on developments in the field of heat and mass transfer, energy-efficient technologies, and industrial ecology. Part of a two-volume set based on the 3rd International Conference on Design, Simulation, Manufacturing: The Innovation Exchange (DSMIE-2020), held on June 9-12, 2020, in Kharkiv, Ukraine, this book provides academics and professionals with extensive information on the latest trends, technologies and challenges in the field as well as practical lessons learned.

Order online at [springer.com](https://www.springer.com) / or for the Americas call (toll free) 1-800-SPRINGER /  
or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com). / For outside the Americas call +49 (0) 6221-345-4301 /  
or email us at: [customerservice@springernature.com](mailto:customerservice@springernature.com).

The first € price and the £ and \$ price are net prices, subject to local VAT. Prices indicated with [1] include VAT for books; the €(D) includes 7% for Germany, the €(A) includes 10% for Austria. Prices indicated with [2] include VAT for electronic products; 19% for Germany, 20% for Austria. All prices exclusive of carriage charges. Prices and other details are subject to change without notice. All errors and omissions excepted. [3] No discount for MyCopy.

