

Springer

1st  
edition1st ed. 2017, XII, 472 p.  
138 illus., 82 illus. in color.**Printed book**

Hardcover

**Printed book**

Hardcover

ISBN 978-3-319-56344-2

\$ 179,99

Available

**Discount group**

Professional Books (2)

**Product category**

Monograph

**Other renditions**

Softcover

ISBN 978-3-319-85891-3

**Engineering : Industrial and Production Engineering**

Biffel, S., Lüder, A., Gerhard, D. (Eds.)

# Multi-Disciplinary Engineering for Cyber-Physical Production Systems

**Data Models and Software Solutions for Handling Complex Engineering Projects**

- **Comprehensively covers Industry 4.0 valued-added processes for flexible production systems, with emphasis on product design and production systems engineering**
- **Considers integrated dependencies between production, production processes, and production systems with engineering processes**
- **Discusses proven solution approaches coming from business informatics and semantic technology research and practice**
- **Addresses process improvement and data integration issues in the multi-disciplinary engineering of cyber-physical production**

This book discusses challenges and solutions for the required information processing and management within the context of multi-disciplinary engineering of production systems. The authors consider methods, architectures, and technologies applicable in use cases according to the viewpoints of product engineering and production system engineering, and regarding the triangle of (1) product to be produced by a (2) production process executed on (3) a production system resource. With this book industrial production systems engineering researchers will get a better understanding of the challenges and requirements of multi-disciplinary engineering that will guide them in future research and development activities. Engineers and managers from engineering domains will be able to get a better understanding of the benefits and limitations of applicable methods, architectures, and technologies for selected use cases. IT researchers will be enabled to identify research issues related to the development of new methods, architectures, and technologies for multi-disciplinary engineering, pushing forward the current state of the art.

**Order online at [springer.com/booksellers](https://www.springer.com/booksellers)****Springer Nature Customer Service Center LLC**

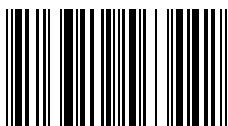
233 Spring Street

New York, NY 10013

USA

T: +1-800-SPRINGER NATURE

(777-4643) or 212-460-1500

[customerservice@springernature.com](mailto:customerservice@springernature.com)

ISBN 978-3-319-56344-2 / BIC: TGP / SPRINGER NATURE: SCT22008

Prices and other details are subject to change without notice. All errors and omissions excepted. Americas: Tax will be added where applicable. Canadian residents please add PST, QST or GST. Please add \$5.00 for shipping one book and \$ 1.00 for each additional book. Outside the US and Canada add \$ 10.00 for first book, \$5.00 for each additional book. If an order cannot be fulfilled within 90 days, payment will be refunded upon request. Prices are payable in US currency or its equivalent.