Record Nr. Autore Titolo	UNINA9910403763803321 Keil Sophia Digital Transformation in Semiconductor Manufacturing : Proceedings of the 1st and 2nd European Advances in Digital Transformation Conference, EADTC 2018, Zittau, Germany and EADTC 2019, Milan, Italy / / edited by Sophia Keil, Rainer Lasch, Fabian Lindner, Jacob Lohmer
Pubbl/distr/stampa	Springer Nature, 2020 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2020
ISBN	3-030-48602-8
Edizione	[1st ed. 2020.]
Descrizione fisica	1 online resource (VIII, 146 p. 64 illus., 50 illus. in color.)
Collana	Lecture Notes in Electrical Engineering, , 1876-1100 ; ; 670
Disciplina	621.38
Soggetti	Computer engineering Internet of things Embedded computer systems Engineering economics Engineering economy Robotics Automation Cyber-physical systems, IoT Engineering Economics, Organization, Logistics, Marketing Robotics and Automation
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	A holistic digital twin based on Semantic Web technologies to accelerate digitalization Framework for Simulation-based Decision Making in Semiconductor Value Chains Digital Twin for Plan and Make Using Semantic Web Technologies – Extending the JESSI/SEMATECH MIMAC Standard to the Digital Reference Enhancing Prediction Quality of Fab Simulation by advanced Cycle Time modelling Visualization of Automated Material Handling System Components in Semiconductor Industry over the Lifecycle.

1.

## Sommario/riassunto

This open access book reports on cutting-edge electrical engineering and microelectronics solutions to foster and support digitalization in the semiconductor industry. Based on the outcomes of the European project iDev40, which were presented at the two first conference editions of the European Advances in Digital Transformation Conference (EADCT 2018 and EADTC 2019), the book covers different, multidisciplinary aspects related to digital transformation, including technological and industrial developments, as well as human factors research and applications. Topics include modeling and simulation methods in semiconductor operations, supply chain management issues, employee training methods and workplaces optimization, as well as smart software and hardware solutions for semiconductor manufacturing. By highlighting industrially relevant developments and discussing open issues related to digital transformation, the book offers a timely, practice-oriented guide to graduate students, researchers and professionals interested in the digital transformation of manufacturing domains and work environments. .