

1. Record Nr.	UNINA9910337628903321
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Titolo	Twin-Control [[electronic resource]] : A Digital Twin Approach to Improve Machine Tools Lifecycle // edited by Mikel Armendia, Mani Ghassempouri, Erdem Ozturk, Flavien Peysson
Pubbl/distr/stampa	Cham, : Springer Nature, 2019 Cham : , : Springer International Publishing : , : Imprint : Springer, , 2019
ISBN	3-030-02203-X
Edizione	[1st ed. 2019.]
Descrizione fisica	1 online resource (XVI, 296 p. 225 illus., 220 illus. in color.)
Disciplina	670
Soggetti	Manufactures Vibration Dynamical systems Dynamics Control engineering Machinery Manufacturing, Machines, Tools, Processes Vibration, Dynamical Systems, Control Control and Systems Theory Machinery and Machine Elements
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	Preface -- Introduction -- Virtual Representation of the Machine Tool and Machining Processes -- Real Representation of the Machine Tool and Machining Processes -- Integration of the Twin Concept -- From Theory to Practice -- Summary and Conclusions.
Sommario/riassunto	This open access book summarizes the results of the European research project "Twin-model based virtual manufacturing for machine tool-process simulation and control" (Twin-Control). The first part reviews the applications of ICTs in machine tools and manufacturing, from a scientific and industrial point of view, and introduces the Twin-Control approach, while Part 2 discusses the development of a digital

twin of machine tools. The third part addresses the monitoring and data management infrastructure of machines and manufacturing processes and numerous applications of energy monitoring. Part 4 then highlights various features developed in the project by combining the developments covered in Parts 3 and 4 to control the manufacturing processes applying the so-called CPSs. Lastly, Part 5 presents a complete validation of Twin-Control features in two key industrial sectors: aerospace and automotive. The book offers a representative overview of the latest trends in the manufacturing industry, with a focus on machine tools. .

2. Record Nr.	UNINA9910808520503321
Titolo	The vertical transportation handbook // George R. Strakosch and Robert Caporale, editors
Pubbl/distr/stampa	New York, NY, : John Wiley & Sons, c2010
ISBN	9786612817106 9780470919736 0470919736 9781282817104 1282817108 9780470949818 0470949813 9780470919712 047091971X
Edizione	[4th ed.]
Descrizione fisica	1 online resource (626 p.)
Altri autori (Persone)	StrakoschGeorge R CaporaleBob
Disciplina	621.8/77
Soggetti	Elevators Escalators
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.

THE VERTICAL TRANSPORTATION HANDBOOK; CONTENTS; Preface; Acknowledgments; Contributors; 1 The Essentials of Elevatoring; 2 The Basis of Elevatoring a Building; 3 Passenger Traffic Requirements; 4 Incoming Traffic; 5 Two-Way Traffic; 6 Outgoing Traffic; 7 Elevator Operation and Control; 8 Space and Physical Requirements; 9 Escalators and Moving Walks; 10 Elevatoring Commercial Buildings; 11 Elevatoring Residential Buildings; 12 Elevatoring Institutional Buildings; 13 Service and Freight Elevators; 14 Nonconventional Elevators, Special Applications, and Environmental Considerations; 15 Automated Materials-Handling Systems; 16 Codes and Standards; 17 Elevator Specifying and Contracting; 18 Economics, Maintenance, and Modernization; 19 Traffic Studies and Performance Evaluation Using Simulation; 20 The Changing Modes of Horizontal and Vertical Transportation; Appendix: Literature on Elevators and Escalators; Index of Tables and Charts; Index of Examples; Subject Index

Sommario/riassunto

This new edition of a one-of-a-kind handbook provides an essential updating to keep the book current with technology and practice. New coverage of topics such as machine-room-less systems and current operation and control procedures, ensures that this revision maintains its standing as the premier general reference on vertical transportation. A team of new contributors has been assembled to shepherd the book into this new edition and provide the expertise to keep it up to date in future editions. A new copublishing partnership with Elevator World Magazine ensures that the quality of the rev
