

1. Record Nr.	UNINA9910337628903321
Autore	Armendia Mikel
Titolo	Twin-Control [[electronic resource]] : A Digital Twin Approach to Improve Machine Tools Lifecycle / / edited by Mikel Armendia, Mani Ghassemouri, 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.

Titolo

UNINA9910808520503321

Pubbl/distr/stampa

The vertical transportation handbook / / George R. Strakosch and Robert Caporale, editors

ISBN

New York, NY, : John Wiley & Sons, c2010

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.

Nota di contenuto

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