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Titolo	Prediction Technologies for Improving Engineering Product Efficiency / / by Lev M. Klyatis
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ISBN	3-031-16655-8
Edizione	[1st ed. 2023.]
Descrizione fisica	1 online resource (XXII, 265 p. 105 illus.)
Disciplina	338.06 658.515
Soggetti	Industrial engineering Production engineering Engineering design Industrial and Production Engineering Engineering Design Process Engineering
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	chapter 1. How was began development of new engineering direction – Successful Prediction of Engineering Product Efficiency -- chapter 2. Analysis of Current Situation with Prediction of New Product Reliability and Efficiency -- chapter 3. Technology of successful prediction of new product efficiency (quality, reliability, durability, maintainability,

safety, life-cycle cost, profit, and other components) -- chapter 4. Accelerated reliability and durability testing technology as second key factor for successful prediction of product efficiency. -- chapter 5. Negative trends in the development of simulation, testing, and prediction in engineering -- chapter 6. Implementation of successful prediction of product efficiency and accelerated reliability and durability testing.

Sommario/riassunto

This book is aimed at readers who need to learn the latest solutions for about interconnected simulation, testing, and prediction technologies that improve engineering product efficiency, including reliability, safety, quality, durability, maintainability, life-cycle costing and profit. It provides a detailed analysis of technologies now being used in industries such as electronics, automotive, aircraft, aerospace, off-highway, farm machinery, and others. It includes clear examples, charts, and illustrations. The book will provide analyses of the simulation, testing, and prediction approaches and methodologies with descriptive negative trends in their development. The author discusses why many current methods of simulation, testing, and prediction are not successful and describes novel techniques and tools developed for eliminating these problems. This book is a tool for engineers, managers, researchers in industry, teachers, and students. Enables efficiency prediction during research, design and manufacturing for any engineering product's life cycle; Includes methods for simulation prediction of reliability, durability, safety, maintainability, life-cycle cost and profit; Discusses why current simulation and testing are not successful and describes effective techniques and tools developed for obtaining accurate prediction for improving engineering product efficiency. Lev Klyatis, Hab. Dr.-Ing., ScD., PhD, Senior Advisor SoHaR, Inc., has been a professor at Moscow State Agricultural Engineering University, research leader and chairman of State Enterprise TESTMASH, and served on the US Technical Advisory Group for the International Electrotechnical Commission (IEC), the ISO/IEC Join Study Group in Safety Aspects of Risk Assessment, the United Nations European Economical Commission, and US-USSR Trade and Economic Council. He is presently a member of World Quality Council, the Elmer A. Sperry Board of Award, SAE International G-41 Reliability Committee, the Integrated Design and Manufacturing Committee and session chairman of SAE International World Congresses in Detroit since 2012. His vast experience and innovation enable him to create a new direction for the successful prediction of product efficiency during any given time, including accurate simulation of real-world conditions, accelerated reliability and durability testing technology, and reducing recalls. His approach has been verified in various industries, primarily automotive, farm machinery, aerospace, and aircraft industries. He has shared his new direction working as the seminar instructor and consultant to Ford, DaimlerChrysler, Nissan, Toyota, Jatko Ltd., Thermo King, Black an Dekker, NASA Research Centers, Karl Schenck, and many others. He holds over 30 patents worldwide and is the author of over 300 publications, including 15 books.
