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Titolo	Response modeling methodology [[electronic resource]] : empirical modeling for engineering and science / / Haim Shore
Pubbl/distr/stampa	Singapore ; Hong Kong, : World Scientific, c2005
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Descrizione fisica	1 online resource (458 p.)
Collana	Series on quality, reliability and engineering statistics ; ; v. 8
Disciplina	620/.00452
Soggetti	Reliability (Engineering) - Statistical methods Engineering models Mathematical optimization
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Contents; 1 Introduction; 2 Relational Models in Engineering and the Sciences (Monotone Convex/Concave Relationships); 3 Shared Features and ""The Ladder""; 4 Approaches to Model Systematic Variation; 5 Approaches to Model Random Variation; 6 The Requirements and Evaluation of Compliance; 7 The RMM Model; 8 Estimating the Relational Model; 9 The RMM Error Distribution; 10 Fitting Procedures (for the Error Distribution); 11 Estimating the Error Distribution; 12 Special Cases of the RMM Model; 13 Evaluating RMM for Compliance; 14 Comparative Solutions for Relational Models 15 Reliability Engineering (with Censoring)16 Software Reliability- Growth Models; 17 Modeling a Chemo-Response; 18 Forecasting S- Shaped Diffusion Processes; 19 RMM Distributional Approximations; 20 Inverse Normalizing Transformations; 21 Piece-Wise Linear Approximations; 22 General Control Charts; 23 Inventory Analysis; Review Questions; Author Index; Subject Index
Sommario/riassunto	This book introduces a new approach, denoted RMM, for an empirical modeling of a response variation, relating to both systematic variation and random variation. In the book, the developer of RMM discusses the required properties of empirical modeling and evaluates how current

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