

1. Record Nr.	UNINA9910727290003321
Titolo	Response Surface Methodology - Research Advances and Applications / / edited by Palanikumar Kayaroganam
Pubbl/distr/stampa	London : , : IntechOpen, , 2023
ISBN	1-83880-299-1
Descrizione fisica	1 online resource (186 pages)
Disciplina	519.5
Soggetti	Graphical modeling (Statistics) Experimental design
Lingua di pubblicazione	Francese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di contenuto	1. Introductory Chapter: Response Surface Methodology -- 2. Application of Central Composite Design with Design Expert v13 in Process Optimization -- 3. Applications of Response Surface Methodology (RSM) in Product Design, Development, and Process Optimization -- 4. Perspective Chapter: Cyclic Generation of Box-Behnken Designs and New Second-Order Designs -- 5. Analysis and Optimization of Bead Geometry by Using Response Surface Methodology -- 6. Analysis and Optimization of Process Parameters in Wire Electrical Discharge Machining Based on RSM: A Case Study -- 7. Optimization of Baker's Yeast Production on Grape Juice Using Response Surface Methodology -- 8. Response Surface Model Applied to Fine Arts: The Case of the Restoration of Paintings.
Sommario/riassunto	Response surface methodology (RSM) is the statistical and mathematical technique that lays its foundation of quality in any experiment and it aims to optimize the response. RSM is mainly used for modeling and optimization of process parameters. This book discusses advances in RSM and its applications. Chapters discuss topics such as cyclic generators for Box-Behnken Designs, the application of RSM for product design, and potential applications of RSM in manufacturing, food processing, the fine arts, and more.