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Titolo	Problem Solving for Process Operators and Specialists [[electronic resource]]
Pubbl/distr/stampa	Hoboken, : Wiley, 2011
ISBN	1-283-26811-6
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Descrizione fisica	1 online resource (343 p.)
Disciplina	660.28
	660/.28
Soggetti	Chemical engineering
	Chemical engineering - Problems, exercises, etc
	Chemical engineering - Quality control
	Chemical engineering --Problems, exercises, etc
	Chemical engineering --Quality control
	Chemical processes - Mathematical models
	Chemical processes --Mathematical models
	Engineering mathematics
	Engineering mathematics --Formulae
	Problem solving
	Chemical engineering - Mathematical models
	Chemical processes
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Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
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Note generali	Description based upon print version of record.

Nota di contenuto	PROBLEM SOLVING FOR PROCESS OPERATORS AND SPECIALISTS; CONTENTS; PREFACE; 1: INITIAL CONSIDERATIONS; 2: LIMITATIONS TO PLANT PROBLEM SOLVING; 3: SUCCESSFUL PLANT PROBLEM SOLVING; 4: EXAMPLES OF PLANT PROBLEM SOLVING; 5: FUNDAMENTALS OF CHEMICAL ENGINEERING FOR PROCESS OPERATORS; 6: DEVELOPMENT OF WORKING HYPOTHESES; 7: APPLICATION TO PRIME MOVERS; 8: APPLICATION TO PLATE PROCESSES; 9: APPLICATION TO KINETICALLY LIMITED PROCESSES; 10: APPLICATION TO UNSTEADY STATE; 11: VERIFICATION OF PROCESS INSTRUMENTATION DATA; 12: SUCCESSFUL PLANT TESTS; 13: UTILIZATION OF MANUAL COMPUTATION TECHNIQUES 14: PUTTING IT ALL TOGETHER15: A FINAL NOTE; APPENDIX: CONVERSION FACTORS; REFERENCES; INDEX
Sommario/riassunto	This book provides methods to train process operators to solve challenging problems. The book is split into two parts. The first part consists of two parts; first developing a daily monitoring system and second providing a structured 5 step problem solving approach that combines cause and effect problem solving thinking with the formulation of theoretically correct hypotheses. The 5 step approach emphasizes the classical problem solving approach (defining the sequence of events) with the addition of the steps of formulating a theoretically correct working hypothesis, providing a means to test