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Autore	Bonem J. M
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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 TOGETHER 15: 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
