



Product and Process Design Principles: Synthesis, Analysis and Evolution (Second Edition)

By Daniel R. Lewin, J.D. Seader, Warren D. Seider

Wiley India Pvt. Ltd., 2013. Softcover. Book Condition: New. 5th or later edition. 18 x 23 cm. Part I: Product and Process Invention-Heuristics and Analysis 1. The Design Process 2. Molecular Structure Design 3. Process Creation 4. Simulation to Assist in Process Creation 5. Heuristics for Process Synthesis Part II: Detailed Process Synthesis- Algorithmic Methods 6. Reactor Design and Reactor Network Synthesis 7. Synthesis of Separation Trains 8. Reactor-Separator-Recycle Networks (CD-ROM) 9. Second Law Analysis (CD-ROM) 10. Heat and Power Integration 11. Mass Integration 12. Optimal Design and Scheduling of Batch Processes Part III: Detailed Design, **Equipment Sizing and Optimization Configured Product** Design 13. Heat Exchanger Design 14. Multisage and Packed Tower Design 15. Pumps, Compressors, and Expanders 16. Cost Accounting and Capital Cost Estimation 17. Annual Costs, Earnings, and Profitability Analysis 18. Optimization of Process Flowsheets 19. Product Design Part IV: Plantwide Controllability Assessment 20. The Interaction of Process Design and Process Control 21. Flowsheet Controllability Analysis Part v: Design Report 22. Written Reports and Oral Presentations Appendix I. Residue Curves for Heterogeneous Systems Appendix II. Design Problem Statements (CD-ROM) Appendix III. Materials of Construction Name Index Subject Index Printed Pages: 820.



Reviews

Unquestionably, this is the greatest operate by any article writer. I could comprehended everything out of this written e ebook. Your way of life span will be transform as soon as you total reading this book.

-- Andy Erdman

Very useful to any or all group of men and women. It is writter in basic words instead of difficult to understand. I realized this ebook from my i and dad recommended this publication to understand.

-- Althea Fahey MD