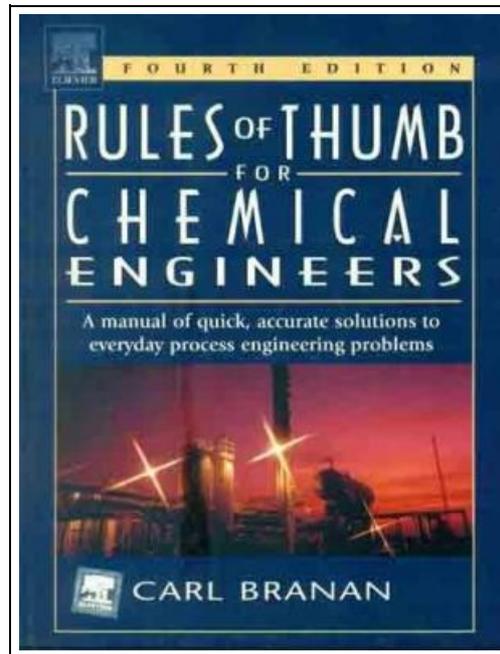


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Elsevier, 2008. Softcover. Book Condition: New. This new edition of the most complete handbook for chemical and process engineers incorporates the latest information for engineers and practitioners who depend on it as a working tool. New material explores the recent trends and updates of gas treating and fractionator computer solutions analysis. Substantial additions to this edition include a new section on gasification that reflects the many new trends and techniques in the field and a treatment on compressible fluid flow. This convenient volume provides engineers with hundreds of common sense techniques, shortcuts, and calculations to quickly and accurately solve day-to-day design, operations, and equipment problems. Here, in a compact, easy-to-use format, are practical tips, handy formulas, correlations, curves, charts, tables, and shortcut methods that will save engineers valuable time and effort. Contents:- Section One: Equipment Design 1. Fluid Flow 2. Heat Exchangers 3. Fractionators 4. Absorbers 5. Pumps 6. Compressors 7. Drivers 8. Separators/Accumulators 9. Boilers 10. Cooling Towers Section Two: Process Design 11. Refrigeration 12. Gasification (by Chris Higman) 13. Gas Treating (updated by Chris Higman) 14. Vacuum Systems 15. Pneumatic Conveying 16. Blending Section Three: Plant Design 17. Process Evaluation 18. Reliability 19. Metallurgy 20. Safety 21. Controls Section Four: Operations 22. Troubleshooting 23. Startup 24. Energy Conservation 25. Shortcut Methods for Decisions 26. Process Modelling Using Linear Programming 27. Properties 28. Approximate Conversion Factors Appendixes Appendix 1: Shortcut Equipment Design Methods ? Overview Appendix 2: Geographic Information Systems Appendix 3: Archimedes? Method Goes Modern Appendix 4: Process Safety Management Appendix 5 Do-it-Yourself Shortcut Methods Appendix 6: Overview for Engineering Students Appendix 7: Guidelines for Equipment Decisions Appendix 8: Process Specification Sheets Index Printed Pages: 496.



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