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Autore	Coker A. Kayode
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Nota di contenuto	Chapter 1: PROCESS PLANNING, SCHEDULING, AND FLOWSHEET DESIGN -- Chapter 2: COST ESTIMATION AND ECONOMIC EVALUATION -- Chapter 3: PHYSICAL PROPERTIES OF LIQUIDS AND GASES -- Chapter 4: FLUID FLOW -- Chapter 5: PUMPING OF LIQUIDS -- Chapter 6: MECHANICAL SEPARATIONS -- Chapter 7: MIXING OF LIQUIDS -- Chapter 8: EJECTORS AND MECHANICAL VACUUM SYSTEMS -- Chapter 9: PROCESS SAFETY AND PRESSURE-RELIEVING DEVICES -- Appendix A: A LIST OF ENGINEERING PROCESS FLOW DIAGRAMS AND PROCESS DATA SHEETS -- Appendix B -- Appendix C: PHYSICAL PROPERTIES OF LIQUIDS AND GASES -- Appendix D -- Appendix E -- Appendix F -- Appendix G: ANALYTICAL TECHNIQUES -- Appendix H : NUMERICAL TECHNIQUES -- Appendix I: SCREENSHOT GUIDE TO ABSOFT COMPILER GRAPHICAL USER INTERFACE -- Index.
Sommario/riassunto	This complete revision of Applied Process Design for Chemical and Petrochemical Plants, Volume 1 builds upon Ernest E. Ludwig's classic text to further enhance its use as a chemical engineering process design manual of methods and proven fundamentals. This new edition includes important supplemental mechanical and related data,

nomographs and charts. Also included within are improved techniques and fundamental methodologies, to guide the engineer in designing process equipment and applying chemical processes to properly detailed equipment. All three volumes of Applied Process Design for Chemical and Petrochemical Plants serve the practicing engineer by providing organized design procedures, details on the equipment suitable for application selection, and charts in readily usable form. Process engineers, designers, and operators will find more chemical petrochemical plant design data in: Volume 2, third edition, which covers distillation and packed towers as well as material on azeotropes and ideal/non-ideal systems. Volume 3, third edition, which covers heat transfer, refrigeration systems, compression surge drums, and mechanical drivers. A. Kayode Coker, is Chairman of Chemical & Process Engineering Technology department at Jubail Industrial College in Saudi Arabia. He's both a chartered scientist and a chartered chemical engineer for more than 15 years. and an author of Fortran Programs for Chemical Process Design, Analysis and Simulation, Gulf Publishing Co., and Modeling of Chemical Kinetics and Reactor Design, Butterworth-Heinemann. Key Features: Provides improved design manuals for methods and proven fundamentals of process design with related data and charts; Covers a complete range of basic day-to-day petrochemical operation topics with new material on significant industry changes since 1995.
