

CHEMICAL ENGINEERING DESIGN

*Principles, Practice and Economics
of Plant and Process Design*

Gavin Towler • Ray Sinnott

THIRD EDITION



Chemical Engineering Design Project Chemical Engineering Design Project

Martyn S. Ray, David W. Johnston



Chemical Engineering Design Project Chemical Engineering Design Project:

Chemical Engineering Design Project Martyn S Ray,1998-10-01 This new edition follows the original format which combines a detailed case study the production of phthalic anhydride with practical advice and comprehensive background information Guiding the reader through all major aspects of a chemical engineering design the text includes both the initial technical and economic feasibility study as well as the detailed design stages Each aspect of the design is illustrated with material from an award winning student design project The book embodies the learning by doing approach to design The student is directed to appropriate information sources and is encouraged to make decisions at each stage of the design process rather than simply following a design method Thoroughly revised updated and expanded the accompanying text includes developments in important areas and many new references

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emphasized ever more in engineering design Since the preliminary research was presented to the National Science Foundation further reliability and validity has been developed and established The CEDA is different from other general creativity measures as it demonstrates discriminant validity with the Creative Personality Scale Creative Temperament Scale and the Cognitive Risk Tolerance Scale and has demonstrated convergent validity with the Purdue Creativity Test and the Purdue Spatial Visualization Test Rotations It focuses on engineering specific measures measuring engineering creativity and spatial skills The aim of this book is to disseminate the CEDA tool for use in engineering educational programs industry NASA and the military Creative Engineering Design Assessment CEDA Background Directions Manual Scoring Guide and Uses discusses and outlines the need for creativity in our global economy and in engineering design and provides the CEDA tool in effort to achieve this

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