

HIMANSHU J. PATEL

# HANDBOOK FOR CHEMICAL PROCESS INDUSTRIES

HANDBOOK FOR  
CHEMICAL PROCESS INDUSTRIES

HIMANSHU J. PATEL



Chemical processing industry plays a pivotal role in its economy of a country, as chemicals are required in every sphere of our lives. This book covers chemical processing of dyes, pigments, drugs and pharmaceutical products, fermented products, agrochemicals, explosives, polymers, Period II and III chemicals, chemicals, sugar, coatings, starches, soaps and detergents, paper, pulp, glass, and cement. It includes sources of natural materials, collection process, purification, and extraction of different chemicals from natural materials like petroleum, coal and ores from the Earth. It includes manufacturing details of C1 to C4 and aromatic compounds obtained from natural materials. The book covers, both traditional and modern sectors of the chemical processing industry. It provides knowledge on the properties of chemical and the manufacturing process (such as raw materials, chemical reactions, quantitative requirement, flow sheet diagram, procedure) and its uses. The book is based on the author's expertise and has been developed keeping in mind, the quantitative requirement for manufacturing chemicals. Data has been collected from industry, but it will be useful to industry personnel, besides research groups, academicians and institutional organizations.

Himanshu J. Patel obtained a Ph.D. in Chemistry in 2012 and has been an Assistant Professor at Pacific School of Engineering, Surat, India since 2014. He has two patents, seven review papers, and fifty research papers in reputed journals by Elsevier, T&F, Springer, Wiley, etc. He has published seven books including one with Elsevier. He has also presented eight research papers in different international conferences and accomplished in two workshops. He is a Ph.D. supervisor recognized by GTU. He is also a Schedule I Environmental Auditor recognized by GPCB (Gujarat Pollution Control Board). Dr. Patel has over 10 years of experience in industry during which period he has been associated with major corporations and worked in several departments like Quality Control, Production, Research and Development, and Environmental Laboratory. He has been appointed on the Editorial Board of many journal and served as a Committee Member in many international conferences. He has also served as Reviewer in numerous journals.

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# Handbook Of Chemical Process Development

**Frank Lees**



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