

# Plant Design Economics For Chemical Engineers 5th Edition

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the drive towards environmentally friendly buildings and infrastructure has led to a growing interest in providing design solutions underpinned by the core principles of sustainability to balance economic social and environmental factors design economics for the built environment impact of sustainability on project evaluation presents new directions reflecting the need to recognise the impact of climate change and the importance of sustainability in project evaluation the aim is to provide a new approach to understanding design economics in the context of the changing policy environment legislative and regulatory framework and increasing economic environmental and social pressure as result of the sustainability agenda the book follows a structured approach from theories and principles in the earlier chapters to the practical applications and emerging techniques focusing on value and social economic and environmental considerations in making design decisions it starts with the policy context building on various theories and principles such as capital cost value of design and resource based theories the new rules of measurement nrm to explore cost planning the relationship between height and costs key socio economic and environmental variables for design appraisal eco cost value ratio evr whole life theory and the treatment of carbon emission as external costs productivity and efficiency fiscal drivers and legal framework for carbon reduction procurement and allocation of risks in contracts case studies practical examples and frameworks throughout reinforce theories and principles and relate them to current practice the book is essential reading for postgraduate students in architecture building and quantity surveying and is also a valuable resource for academics consultants and policy makers in the built environment

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a textbook on design economics for students of architecture building and quantity surveying it examines the links between design and the costs of building as well as more general economic issues and their significance for designers and builders

this new edition contains chapters on process synthesis computer aided design and design of chemical reactors the economic analysis has been updated numerous real examples include computer or hand solutions with an increased emphasis on computer use in design economic evaluation and optimization

engineers often find themselves tasked with the difficult challenge of developing a design that is both technically and economically feasible a sharply focused how to book engineering economics and economic design for process engineers provides the tools and methods to resolve design and economic issues it helps you integrate technical a

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