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and more reliable way This book will be of interest to researchers and advanced readers in chemical biochemical environmental and materials engineering and industrial chemistry **Improvements in Bio-Based Building Blocks** Production Through Process Intensification and Sustainability Concepts Juan Gabriel Segovia-Hernandez, Eduardo Sanchez-Ramirez, César Ramírez-Márquez, Gabriel Contreras-Zarazúa, 2021-09-14 Improvements in Bio Based Building Blocks Production Through Process Intensification and Sustainability Concepts discusses new information on the production and cost of bio based building blocks From a technical point of view almost all industrial materials made from fossil resources can be substituted using bio based counterparts However the cost of bio based production in many cases exceeds the cost of petrochemical production In addition new products must be proven to perform at least as good as their petrochemical equivalents have a lower environmental impact meet consumer demand for environmentally friendly products factor in population growth and account for limited supplies of non renewables This book outlines the application of process intensification techniques which allow for the generation of clean efficient and economical processes for bio based chemical blocks production Includes synthesis and process design strategies for intensified processes Describes multi objective optimization applied to the production of bio based building blocks Presents the controllability of processes where the production of bio based building blocks is involved Provides examples using aspen and MATLAB Introduces several sustainable indexes to evaluate production processes Presents process intensification techniques to improve performance in productive processes Chemical Engineering Dynamics John Ingham, Irving J. Dunn, Elmar Heinzle, Jiri E. Prenosil, Jonathan B. Snape, 2008-02-08 In this book the modelling of dynamic chemical engineering processes is presented in a highly understandable way using the unique combination of simplified fundamental theory and direct hands on computer simulation The mathematics is kept to a minimum and yet the nearly 100 examples supplied on www wiley vch de illustrate almost every aspect of chemical engineering science Each example is described in detail including the model equations They are written in the modern user friendly simulation language Berkeley Madonna which can be run on both Windows PC and Power Macintosh computers Madonna solves models comprising many ordinary differential equations using very simple programming including arrays It is so powerful that the model parameters may be defined as sliders which allow the effect of their change on the model behavior to be seen almost immediately Data may be included for curve fitting and sensitivity or multiple runs may be performed. The results can be seen simultaneously on multiple graph windows or by using overlays. The resultant learning effect of this is tremendous The examples can be varied to fit any real situation and the suggested exercises provide practical guidance The extensive experience of the authors both in university teaching and international courses is reflected in this well balanced presentation which is suitable for the teacher the student the chemist or the engineer This book provides a greater understanding of the formulation and use of mass and energy balances for chemical engineering in a most stimulating manner This book is a third edition which also includes biological environmental and food

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