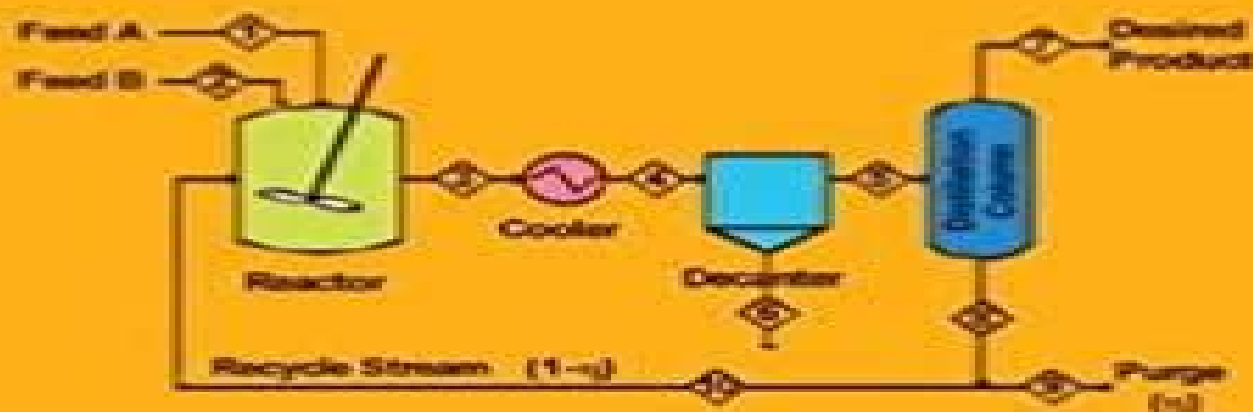


Advances in Process Systems Engineering – Vol. 1

# MULTI-OBJECTIVE OPTIMIZATION

Techniques and Applications in  
Chemical Engineering



Gade Pandu Rangaiah

*editor*

# Multi Objective Optimization In Chemical Engineering Developments And Applications

**Allan Vandervoort**



## **Multi Objective Optimization In Chemical Engineering Developments And Applications:**

*Multi-Objective Optimization in Chemical Engineering* Gade Pandu Rangaiah, Adrian Bonilla-Petriciolet, 2013-03-20 For reasons both financial and environmental there is a perpetual need to optimize the design and operating conditions of industrial process systems in order to improve their performance energy efficiency profitability safety and reliability However with most chemical engineering application problems having many variables with complex inter relationships meeting these optimization objectives can be challenging This is where Multi Objective Optimization MOO is useful to find the optimal trade offs among two or more conflicting objectives This book provides an overview of the recent developments and applications of MOO for modeling design and operation of chemical petrochemical pharmaceutical energy and related processes It then covers important theoretical and computational developments as well as specific applications such as metabolic reaction networks chromatographic systems CO<sub>2</sub> emissions targeting for petroleum refining units ecodesign of chemical processes ethanol purification and cumene process design *Multi Objective Optimization in Chemical Engineering Developments and Applications* is an invaluable resource for researchers and graduate students in chemical engineering as well as industrial practitioners and engineers involved in process design modeling and optimization Multi-objective Optimization Gade Pandu Rangaiah, 2009 Following a brief introduction and general review on the development of multi objective optimization applications in chemical engineering since 2000 the book gives a description of selected multi objective techniques and then goes on to discuss chemical engineering applications These applications are from diverse areas within chemical engineering and are presented in detail Several exercises are included at the end of many chapters **Multi-objective Optimization: Techniques And Applications In Chemical Engineering (Second Edition)** Gade Pandu Rangaiah, 2016-12-22

Optimization is now essential in the design planning and operation of chemical and related processes Although process optimization for multiple objectives was studied in the 1970s and 1980s it has attracted active research in the last 15 years spurred by the new and effective techniques for multi objective optimization MOO To capture this renewed interest this monograph presents recent research in MOO techniques and applications in chemical engineering Following a brief introduction and review of MOO applications in chemical engineering since 2000 the book presents selected MOO techniques and many chemical engineering applications in detail In this second edition several chapters from the first edition have been updated one chapter is completely revised and three new chapters have been added One of the new chapters describes three MS Excel programs useful for MOO of application problems All the chapters will be of interest to researchers in MOO and or chemical engineering Several exercises are included at the end of many chapters for use by both practicing engineers and students *Differential Evolution In Chemical Engineering: Developments And Applications* Gade Pandu Rangaiah, Shivom Sharma, 2017-05-29 Optimization plays a key role in the design planning and operation of chemical and related processes for several decades Techniques for solving optimization problems are of deterministic or stochastic type Of these stochastic

techniques can solve any type of optimization problems and can be adapted for multiple objectives Differential evolution DE proposed about two decades ago is one of the stochastic techniques Its algorithm is simple to understand and use DE has found many applications in chemical engineering This unique compendium focuses on DE its recent developments and applications in chemical engineering It will cover both single and multi objective optimization The book contains a number of chapters from experienced editors and also several chapters from active researchers in this area

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