



Iterative Algorithms for Multilayer Optimizing Control

Witold A. Biały & Piotr Tatjewski

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R Sandford

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Hierarchical Control and Optimization Strategies Applied to Solar Membrane Distillation Facilities Juan D. Gil, 2023-04-13 This book offers a systematic study of control algorithms applied in the operation of solar membrane distillation (SMD) facilities. After a short introduction to membrane distillation systems powered by solar energy, it reports on the various stages of the development of a comprehensive operating strategy based on modelling, control and optimization techniques which enables an improved operation of SMD plants, helping the commercialization of the SMD technology. A special focus of the research was to maximize the distillate production of the MD modules while reducing their thermal energy consumption, being those two important weaknesses of the current technology as well as their minimizing operating costs. The optimised operating strategies were tested in a real pilot plant located at Plataforma Solar de Almería, a dependency of the Centro de Investigaciones Energéticas, Medioambientales y Tecnológicas (CIEMAT) of Spain. All in all, this thesis offers extensive information on control and modeling algorithms and on their practical applications in solar membrane distillation plants.

Real-Time Optimization Dominique Bonvin, 2018-07-05 This book is a printed edition of the Special Issue Real Time Optimization that was published in Processes.

18th European Symposium on Computer Aided Process Engineering Bertrand Braunschweig, Xavier Joulia, 2008-06-18 Plenary Lectures Topic 1 Off Line Systems Topic 2 On Line Systems Topic 3 Computational Numerical Solutions Strategies Topic 4 Integrated And Multiscale Modelling And Simulation Topic 5 Case For The Users Topic 6 Case And Society Topic 7 Case In Education

Advanced Control of Industrial Processes Piotr Tatjewski, 2007-02-23 This book presents the concepts and algorithms of advanced industrial process control and on line optimization within the framework of a multilayer structure. It describes the interaction of three separate layers of process control: direct control, set point control and economic optimization. The book features illustrations of the methodologies and algorithms by worked examples and by results of simulations based on industrial process models.

Feature Papers Michael Henson, 2018-10-04 This book is a printed edition of the Special Issue Feature Papers that was published in Processes.

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