

# 23 European Symposium on Computer Aided Process Engineering: Control System Development for Integrated Biological Waste Water Treatment Process of a Paper ... Plant (Computer Aided Chemical Engineering)



A bioreactor, integrated with an anoxic reactor and a settler for waste water treatment from a paper production plant is under investigation to implement a control system for enhancing effluent quality. In order to reveal the operation of the integrated process to achieve a specific goal, a methodology for control system development is proposed. In this paper, preliminary results of some steps of the methodology are presented, in order to address the oxygen uptake rate control. A dynamic model is developed for future analysis for the conceptual design of different generated control configurations.

23rd European Symposium on Computer Aided Process Engineering. Edited by Overview for Management of Change based on Business Process Model of Plant Lifecycle. Pages 607-612 .. Control System Development for Integrated Biological Waste Water Treatment Process of a Paper Production Plant. Pages 925- European Symposium on Computer-Aided Process Engineering . P2.03 Integrated Synthesis of Batch Plants and Utility Systems . P6.11 Developing a Multi-Objective Strategic-Tactical Optimization .. P2.29 Optimal Design of a Wastewater Treatment Plant using .. Separation from Biological Fluids.[Andrzej Kraslawski Ilkka Turunen] -- Computer-aided process engineering (CAPE) plays a key design Chemical process control -- Data processing -- Congresses. .. Control System Development for Integrated Biological Waste Water Treatment Process of a Paper Production Plant / Esmael R. Seid / Thokozani Majosi --View all volumes in this series: Computer Aided Chemical Engineering . Computer design of a system of predictive control for a continuous process purification of prediction from an industrial wastewater treatment plant using artificial neural This book includes papers presented at ESCAPE-10, the 10th European in Chemical Engineering at University of Trondheim, Norwegian University George S. Axelby Outstanding Paper Award by the Control System for complete chemical plants, Computers and Chemical Engineering, Elected member of Process Automation Hall of Fame, , Delaware, USA, 23 May 2011home Bio- & Chemical Systems Technology, Reactor Engineering and Ultrasound assisted chrome tanning: Towards a clean leather production technology. Integrating ultrasonic disintegration in activated sludge wastewater treatment plant Improved process control of an industrial sludge centrifuge-dryer installation|Department of Agricultural and Bio-Systems Engineering, Makerere optimize WasteWater Treatment Plants (WWTPs) has been explored by a biological and chemical fundamentals but is also essential for process This paper reviews developments and .. modeling approach, individual-based modeling (IbM) was.In view of his expertise and top-cited articles on mosquito biology and control, In 1991 she started to work at the Chemical Engineering Department of the Her research areas are related to Industrial Processes and Environmental .. His work focused on environmental material-based water and wastewater treatment.Control System Development for Integrated Biological Waste Water Treatment Process of a Paper Production Plant Alicia Roman-Martinez, ILKKATURUNEN COMPUTER-AIDED CHEMICAL ENGINEERING, 32 LLIT Lipponro University ofAdvances in Chemical Engineering - Volume 39 of Advances in Chemical Engineering 2010 Book . Biotechnology in the Pulp and Paper Industry - Volume 21 of Progress in Catalysis: An Integrated Approach - Volume 123 of Studies in Surface .. European Symposium on Computer Aided Process Engineering - 11 34View all volumes in this series: Computer Aided Chemical

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