Research outputs:

A Genome-Scale Metabolic Model for *Methylococcus capsulatus* (Bath) Suggests Reduced Efficiency Electron Transfer to the Particulate Methane Monoxygenase
Research output: Contribution to journal › Journal article – Annual report year: 2018 › Research › peer-review

Extending MFM Function Ontology for Representing Separation and Conversion in Process Plant
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2018 › Research › peer-review

Economic Optimizing Control for Single-Cell Protein Production in a U-Loop Reactor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2017 › Research › peer-review

Mixing and mass transfer in a pilot scale U-loop bioreactor
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

The effect of design and scale on the mixing and mass transfer in U-loop bioreactors
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2017 › Research › peer-review

Cyclic distillation technology - A mini-review
Research output: Contribution to journal › Review – Annual report year: 2016 › Research › peer-review

New Realization of Periodic Cycled Separation
Research output: Contribution to journal › Journal article – Annual report year: 2016 › Research › peer-review

Validation of a functional model for integration of safety into process system design
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2015 › Research › peer-review
An integrated qualitative and quantitative modeling framework for computer-assisted HAZOP studies
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Data Driven Modeling for Monitoring and Control of Industrial Fed-Batch Cultivations
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Hazard identification by extended multilevel flow modelling with function roles.
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Incident at university research facility - melt down of gas chromatograph evaporation block and failure of a passive safety barrier.
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Incident at university research facility - pressure testing of gas hydrate cell
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Practical Application of the MFM Suite on a PWR System: Modelling and Reasoning on Causes and Consequences of Process Anomalies
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Reflections on the aerobic fermentation stoichiometry of crabtree positive yeasts
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Representing Operational Knowledge of PWR Plant by Using Multilevel Flow Modelling
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2014 › Research › peer-review

Tools to prevent process safety events at university research facility - chemical risk assessment and experimental set-up risk assessment.
Research output: Contribution to journal › Journal article – Annual report year: 2014 › Research › peer-review

Hazard Identification of the Offshore Three-phase Separation Process Based on Multilevel Flow Modeling and HAZOP
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

Learning Safety Assessment from Accidents in a University Environment
Jensen, N. & Jørgensen, S. B., 2013
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2013 › Research › peer-review
Learning Safety Assessment from Accidents in a University Environment
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2013 › Research › peer-review

A systematic methodology for controller tuning in wastewater treatment plants
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Controller tuning in wastewater treatment plants
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research

Enhancing inhibited fermentations through a dynamic electro-membrane bioreactor
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research › peer-review

Following an Optimal Batch Bioreactor Operations Model
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

Integrating process and automation design based on functional concepts
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2012 › Research

Modeling Operating Modes during Plant Life Cycle
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2012 › Research

Modeling Operating Modes during Plant Life Cycle
Research output: Chapter in Book/Report/Conference proceeding › Conference abstract in proceedings – Annual report year: 2012 › Research

Modeling Operating Modes for the Monju Nuclear Power Plant
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2012 › Research › peer-review

Modeling Operating Modes for the Monju Nuclear Power Plant
Research output: Contribution to journal › Journal article – Annual report year: 2013 › Research › peer-review

On controllability of an integrated bioreactor and periodically operated membrane separation process
pH control structure design for a periodically operated membrane separation process
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Tuning SISO offset-free Model Predictive Control based on ARX models
Research output: Contribution to journal › Journal article – Annual report year: 2012 › Research › peer-review

Adaptive Disturbance Estimation for Offset-Free SISO Model Predictive Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

A Design Algorithm using External Perturbation to Improve Iterative Feedback Tuning Convergence
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

A Systematic Methodology for the Assessment and Troubleshooting of Control Strategies and Operational Problems In Distillation Systems
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Fundamental Principles of Alarm Design
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Model based design and operation of a membrane bioreactor for lactic acid production
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Model based investigation of the potential lactate recovery using Electro-Enhanced Dialysis - Static analysis
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Modelling and control of heat-integrated distillation columns: An industrial case study
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Multilevel flow modeling of Monju Nuclear Power Plant
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Noise Modelling and MPC Tuning for Systems with Infrequent Step Disturbances
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review
Noise Modelling and MPC Tuning for Systems with Infrequent Step Disturbances
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2011 › Research › peer-review

Reverse Electro-Enhanced Dialysis for lactate recovery from a fermentation broth
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Soft sensor design by multivariate fusion of image features and process measurements
Research output: Contribution to journal › Journal article – Annual report year: 2011 › Research › peer-review

Systematic identification and robust control design for uncertain time delay processes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

Systematic Procedure for Integrated Process Operation: Reverse Electro-Enhanced Dialysis (REED) during Lactic Acid Fermentation
Research output: Contribution to conference › Poster – Annual report year: 2011 › Research

Systematic Procedure for Integrated Process Operation: Reverse Electro-Enhanced Dialysis (REED) during Lactic Acid Fermentation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2011 › Research › peer-review

A Goal based methodology for HAZOP analysis
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

A Functional HAZOP Methodology
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

ARX-based Model Predictive Control of Systems with Time Delays
Research output: Contribution to conference › Poster – Annual report year: 2010 › Research › peer-review

ARX-Model based Model Predictive Control with Offset-Free Tracking
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review
ARX-Model based Model Predictive Control with Offset-Free Tracking
Huusom, J. K., Poulsen, N. K., Jørgensen, S. B. & Jørgensen, J. B., 2010
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2010 › Research

Control System Development for Integrated Bioreactor and Membrane Separation Process
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2010 › Research

Control System Development for Integrated Bioreactor and Membrane Separation Process
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Iterative Feedback Tuning of Uncertain State Space Systems
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Modeling and Simulation of Single Cell Protein Production
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Modeling and Simulation of Single Cell Protein Production
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2010 › Research

Modeling Donnan Dialysis Separation for Carboxylic Anion Recovery
Research output: Contribution to journal › Journal article – Annual report year: 2010 › Research › peer-review

Optimal Operating Points for SCP Production in the U-Loop Reactor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research › peer-review

Optimal Operating Points for SCP Production in the U-Loop Reactor
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2010 › Research

Single-Cell Protein Production in a U-Loop Reactor
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2010 › Research

Single-Cell Protein Production in a U-Loop Reactor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2010 › Research
Bioprocess Modelling for Learning Model Predictive Control (L-MPC)
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2009 › Research › peer-review

Data Driven Tuning of State Space Controllers with Observes
Huusom, J. K., Poulsen, N. K. & Jørgensen, S. B., 2009
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Data Driven Tuning of State Space Controllers with Observes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Data Driven Tuning of State Space Control loops with unknown state information and model uncertainty
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Data Driven Tuning of State Space Control loops with unknown state information and model uncertainty
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Improving Convergence of Iterative Feedback Tuning
Research output: Contribution to journal › Journal article – Annual report year: 2009 › Research › peer-review

Iterative Feedback Tuning of State Space Control Loops with Observers Given Model Uncertainty
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Lactic Acid Recovery in Electro-Enhanced Dialysis: Modelling and Validation
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Lactic Acid Recovery in Electro-Enhanced Dialysis: Modelling and Validation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

Modeling Reverse Electro-Enhanced Dialysis for Integration with Lactic Acid Fermentation
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research
Modelling for Process and Control Design
Jørgensen, S. B., 2009
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Modelling Paradigms for Process Design, Identification and Control
Jørgensen, S. B., 2009
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Modelling, Simulation and Optimization of Single-Cell Protein Production in a U-Loop Reactor
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Perturbed Iterative Feedback Tuning
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2009 › Research

Tool for Optimizing the Design and Operation of Reverse Electro-Enhanced Dialysis of Monoprotic Carboxylic Acids
Research output: Contribution to conference › Poster – Annual report year: 2009 › Research › peer-review

Tool for Optimizing the Design and Operation of Reverse Electro-Enhanced Dialysis of Monoprotic Carboxylic Acids
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2009 › Research › peer-review

A Design Algorithm using External Perturbation to Improve Iterative Feedback Tuning Convergence
Research output: Book/Report › Report – Annual report year: 2008 › Research › peer-review

A Dynamic Model for a Cupola Furnace
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2008 › Research › peer-review

A Generalized Autocovariance Least-Squares Method for Kalman Filter Tuning
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

A Goal Based Methodology for HAZOP Analysis
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

A Goal Based Methodology for HAZOP Analysis
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

A SYSTEM AND A METHOD FOR PREDICTION OF NOx EMISSION AND/OR FREE LIME CONCENTRATION IN A CEMENT KILN
Bubble Size Estimation for Flotation Processes
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review

Fundamental Principles of Alarm Design
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

Fundamental Principles of Alarm Design
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Improving Convergence of Iterative Feedback Tuning using Optimal External Perturbations
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

Improving Convergence of Iterative Feedback Tuning using Optimal External Perturbations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Integrated Bioreactor and Membrane Separation Processes
Research output: Contribution to conference › Poster – Annual report year: 2008 › Research › peer-review

Modelling of Electrically Driven Membrane Separation Processes
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

Modelling of Ion Transport across Anion Exchange Membranes Under Current Reversal Conditions
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

Multirate Data Assimilation using the Extended Kalman Filtering in a Cultivation Process
Barrero Mendoza, O. & Jørgensen, S. B., 2008, Technical University of Denmark, Department of Chemical Engineering.
Research output: Book/Report › Report – Annual report year: 2008 › Research › peer-review

Multirate Process Data Assimilation using the Extended Kalman Filtering
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2008 › Research

Multirate Process Data Assimilation using the Extended Kalman Filtering
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2008 › Research › peer-review

Observer and data-driven model based fault detection in Power Plant Coal Mills
Research output: Contribution to journal › Journal article – Annual report year: 2008 › Research › peer-review
Continuous-Discrete Time Prediction-Error Identification Relevant for Linear Model Predictive Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Continuous-Discrete Time Prediction-Error Modelling Relevant for Linear Model Predictive Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Control in Bioprocesses - Control Design for Functionality
Jørgensen, S. B., 2007
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Control Structure for Single Cell Protein Production in a U-Loop Reactor
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Data Driven Controller Tuning
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Data Driven Controller Tuning
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Data Driven Controller Tuning
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Data-driven soft sensor design with multiple-rate sampled data: A comparative study
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Data Driven Tuning of Inventory Controllers
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Data Driven Tuning of Inventory Controllers
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research › peer-review

Data Driven Tuning of Lower Level Controllers for Disturbance Rejections
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Estimation of noise covariances and indentification of disturbance structure using the autocovariance least-squares method
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research
Estimation of noise covariances and identification of disturbance structure using the autocovariance least-squares method
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Evolving Approaches to Modelling Bioprocesses for Control
Jørgensen, S. B., 2007
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Experimental Design for Input/Output Constrained Closed-Loop Systems
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Functional HAZOP
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Identifiability analysis and qualitative experimental design: An enzymatic reaction network
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Improving Model Predictive Control Performance Using Disturbance Estimation
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Improving Model Predictive Control Performance using Disturbance Estimation and Systematic Kalman Filter Tuning
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2007 › Research › peer-review

Improving Model Predictive Control Performance Using Systematic Kalman Filter Tuning
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Iterative Controller Tuning for Processes with Fold Bifurcations
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2007 › Research

Iterative Controller Tuning for Process with Fold Bifurcations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2007 › Research

Keeping Experiments in Control with Interval Methods
Research output: Contribution to journal › Journal article – Annual report year: 2007 › Research › peer-review

Matlab Toolbox Manual
Research output: Book/Report › Report – Annual report year: 2007 › Research › peer-review

MPC-Relevant Prediction-Error Identification
Stochastic Grey Box Modelling of the Enzymatic Biochemical Reaction Network E-coli Mutants
Research output: Contribution to journal › Journal article – Annual report year: 2006 › Research › peer-review

Systematic Methodology for Reproducible Optimizing Batch Operation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research › peer-review

Towards understanding the role and function of regulatory networks in microorganisms
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2006 › Research › peer-review

Towards understanding the role and function of regulatory networks in microorganisms
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 2006 › Research › peer-review

Understanding Static Multiplicities in Heat Integrated Distillation Pilot Plant
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2006 › Research

Advanced Control of Batch Processes
Research output: Contribution to conference › Poster – Annual report year: 2005 › Research

A procedure for guaranteed in Control experimental design
Bonné, D., Jørgensen, J. B. & Jørgensen, S. B., 2005
Research output: Book/Report › Report – Annual report year: 2005 › Research › peer-review

A Systematic Approach for Soft Sensor Development
Lin, B., Recke, B., Renaudat, P., Jørgensen, S. B. & Knudsen, J., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

CAPEC Research Report 2005
Gani, R. & Jørgensen, S. B., 2005
Research output: Book/Report › Report – Annual report year: 2005 › Research

Comparative study of reactivity to CO2 of cokes used in stone wool production
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Computer-aided model analysis for ionic strength-dependent effective charge of protein in ion-exchange chromatography
Research output: Contribution to journal › Journal article – Annual report year: 2005 › Research › peer-review

Data-driven Soft Sensor Design – Application to Cement Kiln
Lin, B., Recke, B., Knudsen, J. & Jørgensen, S. B., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Design of Sustainable Processes: Systematic Generation & Evaluation of Alternatives
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review
Experimental Investigation of Data-driven Modelling for Control of Fed-Batch Cultivation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Generic Procedure for Data-driven Predictive Modelling for Control – Exemplified on a Cement Kiln
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Grey-box modeling of continuous cultures of Aspergillus oryzae under oxygen limitation
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2005 › Research › peer-review

Keeping Experiments in Control with Interval Methods
Bonné, D., Jørgensen, J. B. & Jørgensen, S. B., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Knowledge-Driven Batch Production – BatchPro
Jørgensen, S. B., 2005
Research output: Book/Report › Report – Annual report year: 2005 › Research › peer-review

Modeling for Predictive Control of Cement Grinding Circuits
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Modelling and control of industrial fermentation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Modelling and control of industrial fermentation
Research output: Contribution to journal › Conference abstract in journal – Annual report year: 2005 › Research › peer-review

Modelling and Control of Industrial Fermentation
Rasmussen, J. K. & Jørgensen, S. B., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Modelling for Control of Industrial Fermentation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Modelling for control: Understanding role and function of regulatory networks in microorganisms
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review
Modelling of cement grinding circuits for predictive control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Modelling of Cement Grinding Circuits for Predictive Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Multi-linear Control of Batch Processes - with guaranteed convergence
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Operability for Mass and Energy Integrated Process Plants (OPERA)
Jørgensen, S. B., 2005
Research output: Book/Report › Report – Annual report year: 2005 › Research › peer-review

Operating Pressure Sensitivity in Distillation: Consequences for Control Structure
Li, H. W., Andersen, T. R. & Jørgensen, S. B., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Process identification Challenges for Nonlinear Model Predictive Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Robust Statistics for Soft Sensor Development
Lin, B., Recke, B., Knudsen, J. & Jørgensen, S. B., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Robust Statistics for Soft Sensor Development
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Robust Statistics for Soft Sensor Development in Cement Klin
Lin, B., Recke, B., Knudsen, J. & Jørgensen, S. B., 2005
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2005 › Research

Robust Statistics for Soft Sensor Development in Cement Klin
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2005 › Research › peer-review

Sensitivity Analysis in Index-1 Differential Algebraic Equations by ESDIRK Methods
A novel framework for simultaneous separation process and product design
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Application of recursive principal component analysis to a continuous biological phosphorous removal process
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Application of Software Sensors for Monitoring and Prediction in Cultivation Processes
Thaysen, M. & Jørgensen, S. B., 2004
Research output: Book/Report › Report – Annual report year: 2004 › Research › peer-review

Application of Software Sensors for Monitoring and Prediction in Fermentation Processes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Application of software sensors for the monitoring and prediction in fermentation processes
Thaysen, M. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Application of space-time CE/SE (conversation element/solution element) method to the numerical solution of chromatographic separation processes
Lim, Y. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

A unified framework for systematic model improvement
Kristensen, N. R., Madsen, H. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

CAPEC Research Report 2004
Gani, R. & Jørgensen, S. B., 2004
Research output: Book/Report › Report – Annual report year: 2004 › Research

Conservation principles suspended solids distribution modeling to support ATS introduction on a recirculating WWTP
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Conservation Principles Suspended Solids Distribution Modelling to Support ATS Introduction on a Recirculating WWTP
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Data Driven Modeling of Sugar Crystallization for Control
Bonne, D., Jørgensen, S. B. & Azevedo, S. F. D., 2004, BatchPro Symposium, Poros, Greece, 6-9 June. p. 139-144
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research
Data driven modelling of batch processes
Bonne, D. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Dynamic Effects Related to Steady-State Multiplicity in Continuous Saccharomyces Cerevisiae Cultivations
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Efficient Sensitivity Computation for Nonlinear Model Predictive Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Emerging Technologies for Monitoring, Control & Optimization of Fed-batch Cultivations
Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Experimental Investigation of Datadriven Modelling and Control of Fed-Batch Cultivation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research

Feasible operational paths serving as initial input for dynamic optimization
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research

Grey-Box Stochastic Modelling as a tool for Improving the Quality of First Engineering Principles Models
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Integrated synthesis, design and modelling of batch operations
Papaeconomou, E., Jørgensen, S. B., Gani, R. & Cordiner, J., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research
Nonlinear Behavior Analysis of Heat Integrated Distillation
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Numerical Methods for Large Scale Moving Horizon Estimation and Control
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Numerical Methods for Model Predictive Control
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2004 › Research › peer-review

Optimal proces dimensionering – optimal anvendelse!
Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Optimization of a six-zone simulated moving bed chromatography: II. Multi-level optimization procedure (MLOP)
Lim, Y. & Jørgensen, S. B., 2004
Research output: Book/Report › Report – Annual report year: 2004 › Research › peer-review

Optimization of simulated moving bed (SMB) chromatography: a multi-level optimization procedure
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research › peer-review

Optimization of simulated moving bed (SMB) chromatography: A multi-level optimization procedure
Lim, Y. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Optimizing control of a heat integrated distillation pilot plant
Li, H. W., Gani, R. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Optimizing Control of Heat Integrated Distillation Pilot Plant
Li, H. W., Gani, R. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Parameter Estimation in Stochastic Grey-Box Models
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

Process software sensor for plant optimization
Thaysen, M. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research
Property cluster based visual technique for synthesis and design of formulations
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Resource Task Network Milp Formulation for Scheduling of a Sugarhouse
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Reverse problem formulation based techniques for process-product synthesis and design
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Stochastic grey-box modelling as a tool for improving the quality of first engineering principles models
Kristensen, N. R., Madsen, H. & Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Systematic generation and evaluation of sustainable process alternatives
Gani, R., Jørgensen, S. B. & Davidescu, F-P., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Towards integration of design and control
Jørgensen, S. B., 2004
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

Understanding control mechanisms in microorganisms: representation of regulatory networks
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2004 › Research

A Combined N and P Removal Wastewater Treatment Plant Simulation Benchmark for Control Strategy Evaluation
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2003 › Research

A conceptual "Design" Based Method for Generation of Batch Recipes
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

A fast and accurate numerical method for solving simulated moving bed (SMB) chromatographic separation problems
Research output: Contribution to journal › Journal article – Annual report year: 2004 › Research › peer-review

A Generalized Adsorption Rate Model Based on the Limiting-Component Constraint in Ion-Exchange Chromatographic Separation for Multicomponent Systems
Lim, Y., Christensen, S. & Jørgensen, S. B., 2003
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Analysis of Optimal Operation of an Energy Integrated Distillation Plant
Research output: Contribution to journal › Conference article – Annual report year: 2003 › Research › peer-review

A New Modeling Approach for Future Challenges in Process and Product Design
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2003 › Research
Experimental and model assisted investigation of an operational strategy for the BPR under low influent concentrations
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Experimental investigation and modelling of heat capacity, heat of fusion and melting interval of rocks
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Experimental investigations of multiple steady states in aerobic continuous cultivations of Saccharomyces cerevisiae
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Identification of Continuous Time Models Using Discrete Time Data
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2004 › Research

Influence of Sedimentation Tank Model Assumptions on Bio-P Model Performance
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research

Investigation of a Mineral Melting Cupola Furnace. Part I. Experimental Work
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Investigation of a Mineral Melting Cupola Furnace. Part II. Mathematical Modeling
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Iterative Identification for Control and Robust Performance of Bioreactor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2003 › Research › peer-review

Process Insights Based Control Structuring of an Integrated Distillation Pilot Plant
Research output: Contribution to journal › Journal article – Annual report year: 2003 › Research › peer-review

Property Cluster based Visual Technique for Synthesis and Design of Formulation
Research output: Contribution to journal › Conference article – Annual report year: 2003 › Research › peer-review

Reconsidering Wastewater Treatment Plant Model Assumptions for Simulating Full-Scale Plant Control
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2003 › Research
Computer Aided Model Analysis and Dynamic Simulation of Wastewater Treatment Plant
Mussati, M., Gernaey, K., Gani, R. & Jørgensen, S. B., 2002, In : Clean Technologies & Environmental Policies. 4, 0, p. 100-114
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Control Strategy Evaluation for Combined N and P Removal Using A Benchmark Wastewater Treatment Plant
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2002 › Research

Data driven Bioreactor Modelling for Monitoring and Control
Research output: Contribution to conference › Paper – Annual report year: 2002 › Research

Data Driven Modelling of Fermentation Process for Monitoring and Control
Thaysen, M. & Jørgensen, S. B., 2002
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Dynamic Simulation of SMB Chromatographic Separation Processes through a Dispersed-Node Model (dNM)
Lim, Y., Christensen, S. & Jørgensen, S. B., 2002
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Growth and enzyme production during continuous cultures of a high amylase-producing variant of Aspergillus oryzae
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

ICAS Integrated Computer Aided System for Education
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Identifying Process and Product Synthesis Targets by Reverse Problem Formulation Techniques
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Integration of Design and Control for Energy Integrated Distillation
Research output: Contribution to journal › Conference article – Annual report year: 2002 › Research › peer-review

Integration of Design and Control through Model Analysis
Research output: Contribution to journal › Journal article – Annual report year: 2002 › Research › peer-review

Iterative Identification for Robust Control Design
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2002 › Research

Local Linear Modeling for Control of Batch Processes
Research output: Contribution to journal › Conference article – Annual report year: 2002 › Research › peer-review
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Vahedi, V. & Jørgensen, S. B., 2001

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Research output: Contribution to journal › Conference article – Annual report year: 2001 › Research › peer-review

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Estimation of Kinetic Parameters in a Structured Yeast Model using Regularization
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Facilitating Fast Modelling Cycle Decision-Making with Statistical Methods
Kristensen, N. R., Madsen, H. & Jørgensen, S. B., 2001
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Functionality Tracking for the Integration of Process and Product Design
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Identification Challenges during the Process Life Cycle
Jørgensen, S. B., 2001
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Research output: Contribution to conference › Poster – Annual report year: 2001 › Research

Learning Control of Batch Processes
Research output: Contribution to journal › Conference article – Annual report year: 2001 › Research › peer-review

Methods and tools for Education
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Modeling, Simulation and Control of an Industrial Electrochemical Process
Modeling, Simulation and Control of an Industrial Electrochemical Process
2001
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Modeling Sugar Crystallization Pans for Control
Jørgensen, S. B. & Bonne, D., 2001
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Model Predictive Control of a Flow Swing Reactor
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 2001 › Research ›
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Nonlinear Control of Processes with Oscillatory Behaviour
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Nonlinear Analysis and Control of a Continuous Fermentation Process
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Optimization of Metabolic Networks for Metabolite Overproduction

Plantwide Control Structure Selection
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Recent Advances and Challenges in Process Identification
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Recent Advances and Challenges in Process Identification
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Simulation and Optimization of a Predenitrification Plant for Biological Nitrogen Removal
Research output: Contribution to conference › Paper – Annual report year: 2001 › Research › peer-review

Stabilisation of the Biological Phosphorus Removal during Low Inlet Concentrations
Research output: Contribution to journal › Conference article – Annual report year: 2001 › Research › peer-review

State Estimation for a Biological Phosphorus Removal Process using an Asymptotic Observer
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

Synthesis of Feasible Operational Sequences/routes in Batch Processes
Papaeconomou, E., Jørgensen, S. B. & Gani, R., 2001
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Synthesis of Feasible Operational Sequences/routes in Batch Processes
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The Effects of Equalization on the Performance of Biological Phosphorus Removal Systems
Research output: Contribution to journal › Journal article – Annual report year: 2001 › Research › peer-review

The Productostat - An Alternative Cultivation Method
Hansen, M. S. & Jørgensen, S. B., 2001
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Towards Automated Selection of Decentralized Control Structures
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Towards Automatic Decentralized Control Structure Selection
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 2001 › Research

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Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Travelling Waves in Recycle Fixed Bed Reactors - Influence of Axial Dispersion on the Qualitative Dynamics
Research output: Non-textual form › Sound/Visual production (digital) – Annual report year: 2001 › Research

Automatic Selection of Decentralized Control Structures
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CAPEC Research Report 2000
Jørgensen, S. B. & Gani, R., 2000
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Dynamics and Control During Start-up of Energy Integrated Distillation Column
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Integration of Design and Control Through Model Analysis
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review

Towards Automatic Decentralized Control Structure Selection
Research output: Contribution to journal › Journal article – Annual report year: 2000 › Research › peer-review
Regularization in thermodynamics
Abildskov, J. & Jørgensen, S. B., 1999
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Supervision of Fed-Batch Fermentations
Research output: Contribution to journal › Journal article – Annual report year: 1999 › Research

The CAPEC Research Report '99
Gani, R. & Jørgensen, S. B., 1999
Research output: Book/Report › Report – Annual report year: 1999 › Research › peer-review

Towards integration of controllability into plant design
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1999 › Research › peer-review

Control structure selection for energy integrated distillation column
Research output: Contribution to journal › Conference article – Annual report year: 1998 › Research › peer-review

Aktiverede slam-processer
Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research

Bifurcation control on a simple chemical system
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

Biological phosphate uptake using nitrite as electron acceptor at low concentrations
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

Control design for a periodic cycled activated sludge plant using ASM 1
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

Heterogeneous azeotropic distillation sequences: Steady state multiplicities
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

Modeling of biological phosphorus removal data with the activated sludge model No.2 and an extended version incorporating denitrifying PAO
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Model Predictive Control Design for an Alternating Nutrient Removal Process
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research › peer-review

Model Predictive Control of a Flow Swing Reactor
Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research › peer-review

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Research output: Contribution to journal › Journal article – Annual report year: 1998 › Research › peer-review

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Research output: Contribution to conference › Conference abstract for conference – Annual report year: 1998 › Research › peer-review

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PID Feedback Control on Bioreactors
Jørgensen, S. B. & Lei, F., 1998
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Static multiplicities in heterogeneous azeotropic distillation sequences
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1998 › Research › peer-review

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Anvendelse af proceskemometri til prædiktion og fejldiagnose
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research

Biochemical engineering science
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Continuous cultivation start-up control - an experimental investigation
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review
Industrial fed-batch fermentation monitoring
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research

Nonlinear dynamics and control of a recycle fixed bed reactor
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1997 › Research

Nonlinear dynamics of a fixed bed reactor with recycle
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Regulation of a continuous yeast bioreactor near the critical dilution rate using a productostat
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Sikkerhedsgrænser for tidsvarierende kemiske processer
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research

Simulation of penicillin production in fed-batch cultivations using a morphologically structured model
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Static multiplicities in heterogeneous azeotropic distillation sequences
Research output: Contribution to journal › Journal article – Annual report year: 1997 › Research › peer-review

Analysis of steady state and dynamic behaviour of a chemostat around critical dilution rate
Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

An Output Multiplicity in Binary Distillation: Experimental Verification
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

Control Configuration for Energy Integrated Distillation
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

Control structure selection for energy integrated distillation column
Research output: Chapter in Book/Report/Conference proceeding › Book chapter – Annual report year: 1996 › Research › peer-review

Control Structure Selection for Energy Integrated Distillation Column
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Dynamik og Regulering af Destillationsprocesser
Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

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Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

Heat Exchanger Network Modelling Framework for Optimal Design and Retrofitting
Research output: Contribution to journal › Journal article – Annual report year: 1996 › Research › peer-review

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Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

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Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research › peer-review

Nonlinear dynamics of a fixed bed reactor with recycle
Recke, B. & Jørgensen, S. B., 1996
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On PCT and GRAFCET - Two approaches in event-driven systems
Research output: Chapter in Book/Report/Conference proceeding › Article in proceedings – Annual report year: 1996 › Research › peer-review

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Parametric Uncertainty Modeling for Robust Control: A Link to Identification
Rasmussen, K. H. & Jørgensen, S. B., 1996
Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

Regulation of a Continuous Yeast Fermentation near the Critical Dilution Rate using a Productostat
Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

The Energy Integrated Distillation Plant at DTU
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Towards Classification of Supervisory Control Goals
Research output: Book/Report › Report – Annual report year: 1996 › Research › peer-review

Advances in Process Identification
Model based Control of a Continuous Yeast Fermentation

Identification of Distillation Process Dynamics Comparing Process Knowledge and Black Box Based Approaches

Dynamics and Control of Chemical Reactors-Selectively Surveyed

On-Line Optimizing Control of a Simulated Continuous Yeast Fermentation

Fixed-bed Reactor Dynamics and Control - A Review

An analog simulation technique for distributed flow systems

Projects:

**On-line styring og regulering af biogasanlæg**
Pind, P. F., Ahring, B. K., Angelidaki, I., Jørgensen, S. B., Lyberatos, G. & Mattiasson, B.
DTU stipendium
01/08/1997 → 18/06/2001
Project: PhD

**Automatisk regulering af biologisk spildevandsanlæg**
Meinhold, J., Jørgensen, S. B., Henze, M., Nielsen, M. V. & Van Loosdrecht, M.
Forskningsrådsstipendium
01/04/1996 → 03/05/2002
Project: PhD

**Kemiske reaktioners ulineære dynamik - indflydelse på design og operation**
Andersen, B. R., Jørgensen, S. B., Cameron, D. & Chorkendorff, I.
Erhvervsforskerordningen
01/08/1995 → 28/04/2000
Project: PhD

**Analyse og dimensionering af ulineære processer**
Recke, B. & Jørgensen, S. B.
DTU stipendium
01/08/1994 → 05/10/1999
Project: PhD

Fejlanalyse af proceskontrolsystemer
Jalashgar, A., Lind, M., Jørgensen, S. B. & Larsson, J. E.
Forskerakademiets Samfinansier
01/02/1994 → 27/05/1997
Project: PhD

Task Oriented Display Design Based on Invariants and Physical Laws
Paulsen, J. L., Lind, M., Jørgensen, S. B., Wieringa, P. A. & Andersen, P. B.
Risø (Løn)
01/06/2000 → 12/02/2005
Project: PhD

Plantwide Control of Generic Integrated Methanol Plant
Hansen, J. E. & Jørgensen, S. B.
Erhvervsforskerordningen
Project: PhD

Fuzzy Based Supervisory Control of Time-varying and Multi-variable Processes
Yazdi, H., Jørgensen, S. B., Jantzen, J. & Kymmel, M.
Erhvervsforskerordningen
01/03/1994 → 09/09/1997
Project: PhD

Hybrid Modeling for Bioreactor Performance
Thaysen, M., Jørgensen, S. B., Petersen, J., Steffensen, E., Villadsen, J., Gram, J. & Stockar, U. V.
Erhvervsforskerordningen
15/05/2001 → 06/11/2006
Project: PhD

Development of a Mathematical Model for Simulation, Design and Control of a Cupola Furnace
Erhvervsforskerordningen
01/04/1999 → 26/11/2002
Project: PhD

Monitoring and Fault Diagnosis
Erhvervsforskerordningen
01/07/1996 → 27/08/2004
Project: PhD

Udformning af procesdisplay
Erhvervsforskerordningen
01/03/1996 → 08/12/2000
Project: PhD

Realtime optimering af et olieraffinaderi
Vahid, A., Jørgensen, S. B., Thyregod, P., Andersen, H. W. & Holst, J.
Erhvervsforskerordningen
01/10/1994 → 09/09/2002
Project: PhD
Integrated operational and process optimization of processes
Nielsen, J. S. & Jørgensen, S. B.
Akademiet for de Tekniske Videnskaber
01/10/1992 → 09/09/1997
Project: PhD

Modelling for Predictive Control
Jørgensen, S. B., Gani, R., Abildskov, J., Andersen, H. W., Jacobsen, E. W. & Li, H.
Blandet Finansiering - SU
01/11/2001 → 22/01/2007
Project: PhD

Modeling, Design, Operability and Analysis of Reaction-Separation Systems
Ramirez Jimenez, E., Gani, R., Jørgensen, S. B., Görak, A. & Perregaard, J.
Stipendie fra udlanet
01/09/2002 → 07/03/2006
Project: PhD

Conflict-based Method for Economical, Subtainable, Safe and Environmentally Clean Process (Retrofit) Design and Operation
Davidescu, F. P., Jørgensen, S. B., Madsen, H., Gernaey, K. V., Kristensen, N. R. & Marquardt, W.
Offentlig finansiering
01/02/2004 → 25/09/2008
Project: PhD

Reaction Pathway Analysis
Hansen, M. S., Jørgensen, S. B., Villadsen, J., Olsson, L., Diers, I. V. & Sonnleitner, B.
Anden sektorministeriel finansiering - SU
01/02/2001 → 01/05/2007
Project: PhD

Optimal and Reproducible Operation of Batch Processes
Bonné, D., Jørgensen, S. B., Poulsen, N. K., Andersen, H. W. & Bonvin, D.
Anden sektorministeriel finansiering - SU
01/08/2000 → 08/07/2005
Project: PhD

Integration of synthesis, design and control of batch operations for product design
Papaoikonomou, E., Jørgensen, S. B., Gani, R., Abildskov, J. & Morrison, J. W.
Anden sektorministeriel finansiering - SU
01/06/2000 → 07/03/2006
Project: PhD

Alternative metoder til energieffektive stofadskillelser
Eden, M. R., Jørgensen, S. B., Gani, R., Kiil, S., Cordiner, J. & Kraslawski, A.
Ansat eksternt CAMP
01/06/1999 → 21/12/2003
Project: PhD

Dynamics and control of fixed bed reactors with varying activity
Santiago, W., Jørgensen, S. B. & Andersen, H. W.
Gammel ordning u/skema-SU
01/07/1990 → 12/09/1997
Project: PhD
Modelling, Identification and control of a continuous fermentation with saccharomyces cerevisiae
Møller, H. E. & Jørgensen, S. B.
Gammel ordning u/skema-SU
01/09/1989 → 04/01/1994
Project: PhD

Strukturidentifikation af multivariable kemiske processer
Rasmussen, K. H. & Jørgensen, S. B.
Gammel ordning u/skema-SU
01/08/1989 → 27/09/1994
Project: PhD

Integrated approach to computer aided process synthesis
Hostrup, M., Gani, R., Jørgensen, S. B., Aasbeg-Petersen, K. & Pistikopoulos, S.
Blandet Finansiering - SU
01/10/1997 → 20/09/2002
Project: PhD

Optimal design og operation af procesintegreret destillation
Andersen, T. R., Jørgensen, S. B., Gani, R., Andersen, H. W. & Skogstad, S.
Blandet Finansiering - SU
01/02/1997 → 24/01/2003
Project: PhD

Control design of fed-batch fermentations
Zangirolami, T., Jørgensen, S. B. & Villadsen, J.
Anden international finansiering - SU
01/09/1994 → 07/01/1999
Project: PhD

Integrated system for design and analysis of pharmaceutical, biochemical, and fine-chemical processes with electrolyte systems
Takano, K., Gani, R., Jørgensen, S. B. & Wiebe, L.
Anden international finansiering - SU
01/09/1997 → 06/04/2001
Project: PhD

Optimization and Control of Biological
Krühne, U., Jørgensen, S. B., Harremoës, P., Olsson, G. & Dupont, R.
Anden Forskningsrådsfinan.-SU
01/07/1996 → 14/03/2002
Project: PhD

Design and Control of Time-Varying Chonical Processes
Pedersen, K., Jørgensen, S. B., Olsson, L., Poulsen, N. K., Brabrand, H. & Hagander, P.
Forskningsrådss stipendium
01/09/1995 → 13/03/2002
Project: PhD

Aircraft, Bifurcation and Control
Cromme, M., Brens, M., Stoustrup, J., Jørgensen, S. B. & Perram-John, W.
DTU stipendium
01/12/1994 → 13/10/1998
Project: PhD

Modelling for Monitoring, Control and Optimization of Fed-Batch
Rasmussen, J. K., Jørgensen, S. B., Jørgensen, H. S., Madsen, H., Gernaey, K. V., Lei, F. & Lübbert, A.
DTU, Samfinansiering
Optimizing control of integrated processes
Jørgensen, J. B., Jørgensen, S. B., Poulsen, N. K., Marquardt, W. & Strand, S.
DTU stipendium
01/08/1997 → 03/06/2005
Project: PhD

A Multi-phase, Multi-level Framework for Computer aided Molecular Design
Harper, P. M., Gani, R., Jørgensen, S. B. & Wiebe, L.
DTU stipendium
01/02/1997 → 25/07/2000
Project: PhD

Development of a computer aided system for process simulation model generation
Jensen, A. K., Gani, R., Jørgensen, S. B. & Sørensen, E. L.
DTU stipendium
01/08/1994 → 02/08/1999
Project: PhD

Engeneering applications of nonlinear dynamics modelling and optimisation of metabolic networks for metabolite production
Lei, F., Jørgensen, S. B., Olsson, L., Villadsen, J., Axelsson, J. P. & Pronk, J.
DTU-lønnet stipendie
01/03/1998 → 14/03/2002
Project: PhD

Model Identification for Predictive Control and Optimization
Huusom, J. K., Jørgensen, S. B., Poulsen, N. K., Jørgensen, J. B., Andersen, H. W. & Bombois, X.
DTU-lønnet stipendie
01/02/2005 → 24/11/2008
Project: PhD

Nonlinear identification and optimal control of fed-batch processes
DTU-lønnet stipendie
01/08/1999 → 24/03/2003
Project: PhD

Thermodynamic insights based integration of process synthesis, design and control
Bek-Pedersen, E., Gani, R., Jørgensen, S. B., Górak, A. & Sørensen, E. L.
DTU-lønnet stipendie
01/10/1999 → 28/02/2003
Project: PhD

Multi-enzyme process modelling
Andrade Santacoloma, P. D. G., Woodley, J., Gernaey, K. V., Sin, G., Jørgensen, S. B., Pedersen, S. & Vasic-Racki, D.
Technical University of Denmark
01/11/2008 → 27/06/2012
Project: PhD

Alloy Catalyst for Direct Methanol Fuel Cells
Chakraborty, D., Johannessen, T., Chorkendorff, I., Livbjerg, H., Jørgensen, S. B., Skou, E. M. & Yde-Andersen, S.
DTU-lønnet stipendie
01/04/2003 → 15/09/2006
Project: PhD
Modelling and Optimization of Integrated Bioreactor And Membrane Separation Processes
Anden EU-finansiering
01/06/2007 → 24/11/2010
Project: PhD

B.2 Modelling and simulation of membrane-based separation processes
Jørgensen, S. B., Tessendorf, S., Michelsen, M. L. & Jonsson, G.
01/05/1997 → …
Project: Research

Control of Biological Waste Water Treatment Plants
Ukendt
01/02/1997 → …
Project: Research

3.2 Cell Cultivations
Jørgensen, S. B.
01/01/1987 → …
Project: Research

3.5 Periodic Processes
Jørgensen, S. B. & Santiago, W.
01/02/1990 → …
Project: Research

3. Process Applications
Jørgensen, S. B.
01/12/1992 → …
Project: Research

3.4 Fixed Bed Reactor
Jørgensen, S. B. & Recke, B.
01/07/1972 → …
Project: Research

3.1 Wet-oxidation Reactor
Jørgensen, S. B.
01/12/1992 → …
Project: Research

3.3 Distillation
Jørgensen, S. B., Andersen, T. R. & Yazdi, H.
01/02/1982 → …
Project: Research

2.1 Reactor Dynamics
Jørgensen, S. B., Recke, B. & Andersen, B. R.
01/07/1972 → …
Project: Research

2.2 Design and Control of Safety Critical Processes
Jørgensen, S. B. & Recke, B.
01/07/1972 → …
2. Chemical Process Dynamics and Control
Jørgensen, S. B.
01/07/1972 → …
Project: Research

2.3 Multivariable Process Identification for Control
Jørgensen, S. B.
01/07/1972 → …
Project: Research

1. Management of Plant Operation and Control
Jørgensen, S. B.
01/01/1995 → …
Project: Research

1.2 Plant Wide Control and Real Time Optimization
Jørgensen, S. B., Andersen, T. R. & Pedersen, K.
01/02/1994 → …
Project: Research

1.3 Process Monitoring, Diagnosis and Optimization
Jørgensen, S. B. & Gregersen, L.
01/02/1994 → …
Project: Research

1.1 Integration of Supervision and Control
Jørgensen, S. B. & Yazdi, H.
01/02/1994 → …
Project: Research

E.1 Process Integration
Gani, R., Andersen, T. R. & Jørgensen, S. B.
01/05/1997 → …
Project: Research

D.4 Non-linear dynamics and control
Jørgensen, S. B., Recke, B., Andersen, T. R. & Lei, F.
01/05/1997 → …
Project: Research

D.5 Control of biological waste water treatment process
Jørgensen, S. B., Meinhold, J., Krühne, U. & Lyngaae-Jørgensen, J.
01/05/1997 → …
Project: Research

G. Process Hazards and Safety
Jørgensen, S. B. & Recke, B.
01/05/1997 → …
Project: Research

D.7 Development of toolbox for linear and non-linear MPC
Jørgensen, S. B. & Jørgensen, J. B.
01/05/1997 → …
Project: Research
D.6 Implementation of control into ICAS
Jørgensen, S. B. & Jørgensen, J. B.
01/05/1997 → …
Project: Research

D.2 Real-time optimising control
Jørgensen, S. B., Pedersen, K. & Jørgensen, J. B.
01/05/1997 → …
Project: Research

D.3 Operational implications of optimality
Jørgensen, S. B. & Jørgensen, J. B.
01/05/1997 → …
Project: Research

D.1 Statistical process monitoring and optimisation
Jørgensen, S. B. & Gregersen, L.
01/05/1997 → …
Project: Research

D. Process Control and Operation
Jørgensen, S. B. & Gregersen, L.
01/05/1997 → …
Project: Research

B.7 Modelling and simulation of biological waste water treatment processes
Jørgensen, S. B., Meinhold, J. & Krühne, U.
01/05/1997 → …
Project: Research

B.8 Modelling and simulation of electrolyte processes
Jørgensen, S. B. & Takano, K.
01/05/1997 → …
Project: Research

B.6 Modelling and simulation reactive separation processes
Jørgensen, S. B. & Hostrup, M.
01/05/1997 → …
Project: Research

B.5 Modelling and simulation reactive separation processes
Jørgensen, S. B., Lei, F. & Pedersen, K.
01/05/1997 → …
Project: Research

B.3 Modelling and simulation of fixed-bed reactors
Jørgensen, S. B., Recke, B. & Keldebaek, M.
01/05/1997 → …
Project: Research

B.9 Real-time refinery predictive models
Jørgensen, S. B.
01/05/1997 → …
Project: Research
B.4 Modelling and simulation of particulate transport in rotary kiln  
Jørgensen, S. B.  
01/05/1997 → …  
Project: Research

B.1 Integrated process simulation  
Jørgensen, S. B., Russel, B. M. & Bagherpour, K.  
01/05/1997 → …  
Project: Research

B. Process modelling, simulation and identification  
Jørgensen, S. B.  
01/05/1997 → …  
Project: Research