



**Mathematical Modelling of Industrial Processes:  
Lectures given at the 3rd Session of the Centro  
Internazionale Matematico Estivo (C.I.M.E.) held  
in ... 24-29, 1990 (Lecture Notes in Mathematics)**

*Stavros Busenberg, Bruno Forte, Hendrik K. Kuiken*

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The 1990 CIME course on Mathematical Modelling of Industrial Processes set out to illustrate some advances in questions of industrial mathematics, i.e. of the applications of mathematics (with all its "academic" rigour) to real-life problems. The papers describe the genesis of the models and illustrate their relevant mathematical characteristics. Among the themes dealt with are: thermally controlled crystal growth, thermal behaviour of a high-pressure gas-discharge lamp, the sessile-drop problem, etching processes, the batch-coil-annealing process, inverse problems in classical dynamics, image representation and dynamical systems, scintillation in rear projection screens, identification of semiconductor properties, pattern recognition with neural networks. CONTENTS: H.K. Kuiken: Mathematical Modelling of Industrial Processes.- B. Forte: Inverse Problems in Mathematics for Industry.- S. Busenberg: Case Studies in Industrial Mathematics.

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