

Chem 6399chemical Kinetics Dynamics

Dynamic Process ModelingDynamic Modeling and Predictive Control in Solid Oxide Fuel CellsApplied Mechanics ReviewsAquatic Sciences and Fisheries AbstractsFossil Energy UpdateIndex to Theses Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic AwardsAmerican Chemical Society Directory of Graduate Research, 1987Nuclear Science AbstractsIndex to Theses with Abstracts Accepted for Higher Degrees by the Universities of Great Britain and Ireland and the Council for National Academic AwardsBulletinFuel Abstracts and Current TitlesBattelle Technical ReviewDirectory of Graduate ResearchRussian Journal of Physical ChemistryNew Serial TitlesGovernment Reports Annual IndexCoal AbstractsEnergy Research AbstractsBiochemistry AbstractsNanobiophotonics and Biomedical Applications Biao Huang American Chemical Society, Committee on Professional Training Staff Institute of Paper Chemistry (Appleton, Wis.)

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inspired by the leading authority in the field the centre for process systems engineering at imperial college london this book includes theoretical developments algorithms methodologies and tools in process systems engineering and applications from the chemical energy molecular biomedical and other areas it spans a whole range of length scales seen in manufacturing industries from molecular and nanoscale phenomena to enterprise wide optimization and control as such this will appeal to a broad readership since the topic

applies not only to all technical processes but also due to the interdisciplinary expertise required to solve the challenge the ultimate reference work for years to come

the high temperature solid oxide fuel cell sofc is identified as one of the leading fuel cell technology contenders to capture the energy market in years to come however in order to operate as an efficient energy generating system the sofc requires an appropriate control system which in turn requires a detailed modelling of process dynamics introducing state of the art dynamic modelling estimation and control of sofc systems this book presents original modelling methods and brand new results as developed by the authors with comprehensive coverage and bringing together many aspects of sofc technology it considers dynamic modelling through first principles and data based approaches and considers all aspects of control including modelling system identification state estimation conventional and advanced control key features discusses both planar and tubular sofc and detailed and simplified dynamic modelling for sofc systematically describes single model and distributed models from cell level to system level provides parameters for all models developed for easy reference and reproducing of the results all theories are illustrated through vivid fuel cell application examples such as state of the art unscented kalman filter model predictive control and system identification techniques to sofc systems the tutorial approach makes it perfect for learning the fundamentals of chemical engineering system identification state estimation and process control it is suitable for graduate students in chemical mechanical power and electrical engineering especially those in process control process systems engineering control systems or fuel cells it will also aid researchers who need a reminder of the basics as well as an overview of current techniques in the dynamic modelling and control of sofc

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