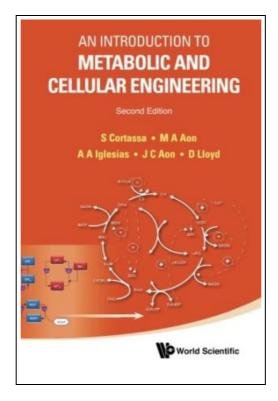
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## Reviews

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(Prof. Maudie Ziemann)

### INTRODUCTION TO METABOLIC AND CELLULAR ENGINEERING, AN (PAPERBACK)



World Scientific Publishing Co Pte Ltd, Singapore, 2012. Paperback. Condition: New. Second Edition. Language: English. Brand New Book. Metabolic and Cellular Engineering (MCE) is more than an exciting scientific enterprise. It has become the cornerstone for coping with the challenges ahead of mankind. Continuous developments, new concepts, and technological innovations will enable us to deal with emerging challenges, and solve problems once thought impossible ten years ago. Challenges in MCE are broad- from unraveling fundamental aspects of cellular function to meeting unsatiated energy and food demands that are rising in parallel with population growth. In charting the progress of MCE during the last decade, we could not help but feel in awe of the enormous strides of progress made from the nascent Metabolic Engineering to the Systems Bioengineering of today. The burgeoning availability of genomic sequences from diverse species has been spectacular. It has become the engine that drives the genetic means for the modification of existing organisms and the generation of synthetic, man-made ones. From the initial attempts at purposeful genetic modification of a cell for the production of valuable compounds, we have now moved on to changing microbes genetically or metabolically. The arsenal of experimental and theoretical tools available for Metabolic and Cellular Engineering has expanded enormously, driven by the re-emergence of Physiology as Systems Biology. The revival of the concept of networks fueled by new developments has become central to Systems Biology. Networks represent an integrative vision of how processes of disparate nature relate to each other, and as such is becoming a key analytical and conceptual tool for MCE. This book reflects and addresses all these ongoing changes while providing the essential conceptual and analytical tools needed to understand and work in the MCE research field.



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