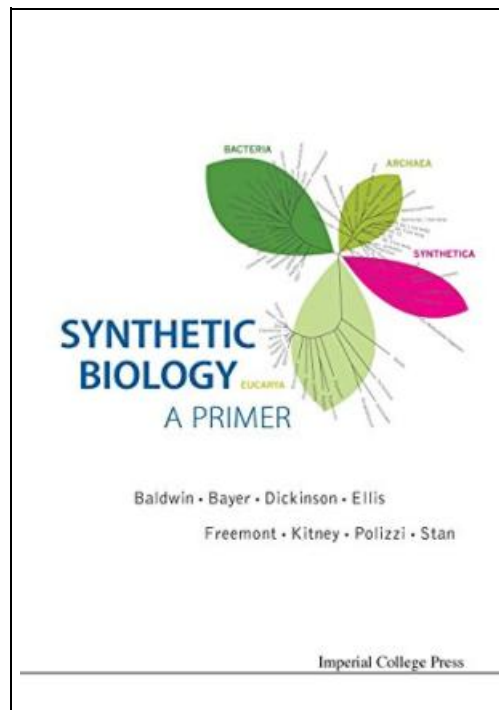# Synthetic Biology - A Primer (Paperback)

Filesize: 7.31 MB

Reviews

This publication is amazing. It is actually loaded with knowledge and wisdom You will like the way the blogger write this publication.
(Keon Altenwerth)

SYNTHETIC BIOLOGY - A PRIMER (PAPERBACK)

To get **Synthetic Biology - A Primer (Paperback)** PDF, you should click the hyperlink listed below and download the ebook or get access to additional information which might be highly relevant to SYNTHETIC BIOLOGY - A PRIMER (PAPERBACK) book.

Imperial College Press, United Kingdom, 2012. Paperback. Condition: New. Language: English. Brand new Book. Synthetic Biology - A Primer gives a broad overview of the emerging field of synthetic biology and the foundational concepts on which it is built. It will be of interest to final year undergraduates, postgraduates and established researchers who are interested in learning about this exciting new field. The book introduces readers to fundamental concepts in molecular biology and engineering and then explores the two major themes for synthetic biology, namely `bottom-up' and `top-down' engineering approaches. `Top-down' engineering utilises a conceptual framework of engineering and systematic design to build new biological systems by integrating robustly characterised biological parts into an existing system through the use of extensive mathematical modelling. The `bottom-up' approach involves the design and building of synthetic protocells using basic chemical and biochemical building blocks from scratch. Exemplars of cutting-edge applications designed using synthetic biology principles are presented, including the production of novel biofuels from renewable feedstocks, microbial synthesis of pharmaceuticals and fine chemicals, and the design and implementation of biosensors to detect infections and environmental waste. The book also uses the Internationally Genetically Engineered Machine (iGEM) competition to illustrate the power of synthetic biology as an innovative research and training science. Finally, the primer includes a chapter on the ethical, legal and societal issues surrounding synthetic biology, illustrating the integration of social sciences in synthetic biology research.

Read Synthetic Biology - A Primer (Paperback) Online

Download PDF Synthetic Biology - A Primer (Paperback)

Related Books

[PDF] Mastering Machine Learning for Penetration Testing: Develop an extensive skill set to break self-learning systems using Python (Paperback)

Click the hyperlink beneath to download "Mastering Machine Learning for Penetration Testing: Develop an extensive skill set to break self-learning systems using Python (Paperback)" PDF document.

Read ePub »

[PDF] Indifference Pricing: Theory and Applications (Hardback)

Click the hyperlink beneath to download "Indifference Pricing: Theory and Applications (Hardback)" PDF document.

Read ePub »

[PDF] ReactJS by Example - Building Modern Web Applications with React (Paperback)

Click the hyperlink beneath to download "ReactJS by Example - Building Modern Web Applications with React (Paperback)" PDF document.

Read ePub »

[PDF] An Historical Account of a New Method for Extracting the Foul Air Out of Ships, C. with the Description and Draught of the Machines, by Which It Is Performed: And the Relation Given

Click the hyperlink beneath to download "An Historical Account of a New Method for Extracting the Foul Air Out of Ships, C. with the Description and Draught of the Machines, by Which It Is Performed: And the Relation Given" PDF document.

Read ePub »

[PDF] An Historical Account of a New Method for Extracting the Foul Air Out of Ships, With the Description and Draught of the Machines, by Which It Is Performed: In Two Letters to a

Click the hyperlink beneath to download "An Historical Account of a New Method for Extracting the Foul Air Out of Ships, With the Description and Draught of the Machines, by Which It Is Performed: In Two Letters to a" PDF document.

Read ePub »

[PDF] Jesus: Seeing Him More Clearly (Paperback)

Click the hyperlink beneath to download "Jesus: Seeing Him More Clearly (Paperback)" PDF document.

Read ePub »