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fundamental principles  
and laws of fluid  
mechanics. Course  
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PROFESSOR: All right,  
let's get started. Today is  
all about Lagrange

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explores the physics of errors in machines and how such knowledge can be used to build an error budget for a machine, how error budgets can be used to design more accurate machines.

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Workforce Education, William Bonvillian and Sanjay Sarma offer a roadmap for rebuilding America's working class.

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They argue that we need to train more workers more quickly, and they describe innovative methods of workforce education that are being developed across the country.

Building on the success of 'Modelling, Analysis, and Control of Dynamic

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Systems', 2nd edition, William Palm's new book offers a concise introduction to vibrations theory and applications. Design problems give readers the opportunity to apply what they've learned. Case studies illustrate practical engineering applications.

A guide to making

*Page 45/67*

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scientific photographs for presentations, journal submissions, and covers, featuring step-by-step instructions and case studies, by an award-winning science photographer; illustrated in color throughout. One of the most powerful ways for scientists to document and communicate their work is through photography.

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Unfortunately, most scientists have little or no training in that craft. In this book, celebrated science photographer Felice Frankel offers a guide for creating science images that are both accurate and visually stunning. *Picturing Science and Engineering* provides detailed instructions for making science photographs

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using the DSLR camera, the flatbed scanner, and the phone camera. The book includes a series of step-by-step case studies, describing how final images were designed for cover submissions and other kinds of visualizations. Lavishly illustrated in color throughout, the book encourages the reader to learn by doing, following



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Frankel as she recreates the stages of discovery that lead to a good science visual. Frankel shows readers how to present their work with graphics--how to tell a visual story--and considers issues of image adjustment and enhancement. She describes how developing the right visual to express a

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concept not only helps make science accessible to nonspecialists, but also informs the science itself, helping scientists clarify their thinking. Within the book are specific URLs where readers can view Frankel's online tutorials--visual "punctuations" of this printed edition.

Additional materials, including tutorials and

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videos, can be found  
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mortis, teaching how to  
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exact calculation. In  
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street fighting, rules are for fools: do whatever works—don't just stand there! Yet we often fear an unjustified leap even though it may land us on a correct result.

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much mathematical  
rigor, teaching us how to  
guess answers without  
needing a proof or an  
exact calculation. In  
Street-Fighting  
Mathematics, Sanjoy  
Mahajan builds,  
sharpens, and  
demonstrates tools for

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educated guessing and  
down-and-dirty,  
opportunistic problem  
solving across diverse  
fields of  
knowledge—from  
mathematics to  
management. Mahajan  
describes six tools:  
dimensional analysis,  
easy cases, lumping,  
picture proofs, successive  
approximation, and  
reasoning by analogy.

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Illustrating each tool with numerous examples, he carefully separates the tool—the general principle—from the particular application so that the reader can most easily grasp the tool itself to use on problems of particular interest. Street-Fighting Mathematics grew out of a short course taught by the author at MIT for

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students ranging from  
first-year undergraduates  
to graduate students

ready for careers in  
physics, mathematics,  
management, electrical  
engineering, computer  
science, and biology.

They benefited from an  
approach that avoided  
rigor and taught them  
how to use mathematics  
to solve real problems.

Street-Fighting



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In The Learning  
Revolution Sanjay Sarma  
argues that the emerging  
focus on actual 'learning'  
over ineffectually just  
'educating' is timely and  
essential to our future. In  
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digitised world, our ability to learn over the course of a lifetime has never been greater. But as a result, the demands for a dynamic, adaptive, and enduring approach to knowledge acquisition and application have increased - we can't just 'do our learning in school' and then settle in for the long haul of a narrowly defined, static

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work life. In this book, readers will travel to the forefront of the current revolution in our understanding of learning, as the convergence of technology, neuroscience, and experimentation fundamentally transforms the act of learning from a craft, to a science, and, ultimately,

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to something that we  
engineer - to ever greater  
outcomes for ourselves,  
our children, our  
students, our colleagues,  
and humanity at  
large. The Learning  
Revolution shows why  
the pace of learning is far  
more important than the  
kind of learning; why  
cramming is a really poor  
way to actually learn  
information; how we can

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prime curiosity to maximize information absorption and storage; and how our knowledge develops through stages of recognition, fluency and creative application.

This book provides an accessible introduction to the principles and tools for modeling, analyzing, and synthesizing biomolecular systems. It

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begins with modeling tools such as reaction-rate equations, reduced-order models, stochastic models, and specific models of important core processes. It then describes in detail the control and dynamical systems tools used to analyze these models. These include tools for analyzing stability of equilibria, limit cycles,

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robustness, and parameter uncertainty. Modeling and analysis techniques are then applied to design examples from both natural systems and synthetic biomolecular circuits. In addition, this comprehensive book addresses the problem of modular composition of synthetic circuits, the tools for analyzing the

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extent of modularity, and the design techniques for ensuring modular

behavior. It also looks at design trade-offs,

focusing on

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for shared cellular

resources. Featuring

numerous exercises and illustrations throughout,

Biomolecular Feedback Systems is the ideal



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textbook for advanced undergraduates and graduate students. For researchers, it can also serve as a self-contained reference on the feedback control techniques that can be applied to biomolecular systems. Provides a user-friendly introduction to essential concepts, tools, and applications Covers the most commonly used

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modeling methods

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