



Mathematics for Dynamic Modeling, Second Edition

Edward Beltrami

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This new edition of **Mathematics for Dynamic Modeling** updates a widely used and highly-respected textbook. The text is appropriate for upper-level undergraduate and graduate level courses in modeling, dynamical systems, differential equations, and linear multivariable systems offered in a variety of departments including mathematics, engineering, computer science, and economics. The text features many different realistic applications from a wide variety of disciplines.

The book covers important tools such as linearization, feedback concepts, the use of Liapunov functions, and optimal control. This new edition is a valuable tool for understanding and teaching a rapidly growing field. Practitioners and researchers may also find this book of interest.

- * Contains a new chapter on stability of dynamic models
- * Covers many realistic applications from a wide variety of fields in an accessible manner
- * Provides a broad introduction to the full scope of dynamical systems
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