

Analytical System Dynamics: Modeling and Simulation

By Brian Fabien

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"Analytical System Dynamics: Modeling and Simulation" combines results from analytical mechanics and system dynamics to develop an approach to modeling constrained multidiscipline dynamic systems. This combination yields a modeling technique based on the energy method of Lagrange, which in turn, results in a set of differential-algebraic equations that are suitable for numerical integration. Using the modeling approach presented in this book enables one to model and simulate systems as diverse as a six-link, closed-loop mechanism or a transistor power amplifier.

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Analytical System Dynamics: Modeling and Simulation By Brian Fabien Bibliography

- Sales Rank: #3279615 in Books
- Published on: 2008-12-02
- Original language: English
- Number of items: 1
- Dimensions: 9.10" h x .80" w x 6.30" l, 1.30 pounds
- Binding: Hardcover
- 326 pages

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