An Introduction to MATLAB® Programming and Numerical Methods for Engineers

By Timmy Siauw, Alexandre Bayen

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Assuming no prior background in linear algebra or real analysis, *An Introduction to MATLAB® Programming and Numerical Methods for Engineers* enables you to develop good computational problem solving techniques through the use of numerical methods and the MATLAB® programming environment. Part One introduces fundamental programming concepts, using simple examples to put new concepts quickly into practice. Part Two covers the fundamentals of algorithms and numerical analysis at a level allowing you to quickly apply results in practical settings.

- Tips, warnings, and "try this" features within each chapter help the reader develop good programming practices
- Chapter summaries, key terms, and functions and operators lists at the end of each chapter allow for quick access to important information
- At least three different types of end of chapter exercises ? thinking, writing, and coding ? let you assess your understanding and practice what you've learned

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Editorial Review

Review

"The book is well written and provides a very good introduction to the field of MATLAB programming and the basic numerical methods necessary for solving engineering problems."--**Computing Reviews,** *An Introduction to MATLAB® Programming and Numerical Methods for Engineers*

"...a clear and easy-to-read book that introduces two fundamental subjects for future scientists and engineers: computer programming and numerical computing."-*Computing Reviews*

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Awards

Presidential Early Career Award for Scientists and Engineers (PECASE), The White House, 2010

NASA Top 10 Innovators on Water Sustainability (Launch 2010), 2010

CAREER Award, National Science Foundation, 2009

TRANNY Award, California Transportation Foundation, 2009

Best of ITS Award, citation for "Best Innovating Practice", ITS World Congress, New York, 2008

Clean Technology Innovation Prize, Berkeley Center for Entrepreneurship & Technology, 2008

William F. Ballhaus Prize for Outstanding Doctoral Dissertation in Aeronautics, Stanford University, 2004

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