# An Introduction to MATLAB® Programming and Numerical Methods for Engineers

*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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