MATLAB: An Introduction with Applications, 6th Edition
Amos Gilat

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DESCRIPTION
More college students use Amos Gilat’s MATLAB: An Introduction with Applications than any other MATLAB textbook. This concise book is known for its just-in-time learning approach that gives students information when they need it. The 6th Edition gradually presents the latest MATLAB functionality in detail. The book includes numerous sample problems in mathematics, science, and engineering that are similar to problems encountered by new users of MATLAB. MATLAB: An Introduction with Applications is intended for students who are using MATLAB for the first time and have little or no experience in computer programming. It can be used as a textbook in first-year engineering courses or as a reference in more advanced science and engineering courses where MATLAB is introduced as a tool for solving problems.

ABOUT THE AUTHOR
Amos Gilat, Ph. D., is a Mechanical Engineering Professor at the Ohio State University. Dr. Gilat’s main research interests are in the area of plasticity, specifically, in developing experimental techniques for testing materials over a wide range of strain rates and temperatures and in investigating constitutive relations for viscoplasticity. The thrust of his research is on developing correlation between observed material response on the continuum scale and the actual deformation process on the microscopic scale. Dr.
Gilat's research has been supported by the National Science Foundation, Department of Energy, Department of Defense, and Ford Motor Company.

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### NEW TO EDITION

- This sixth edition of the book is updated to MATLAB Release 2016a.
- Most end-of-chapter problems have been revised. In Chapters 1 through 8 close to 70%

Resources and Support

**Instructor Resources**

- Instructor Solutions Manual -- detailed solutions to all questions, exercises, and problems in the textbook.
- PowerPoint Lecture Slides -- a presentation of key concepts allowing you to illustrate important topics with images, figures, and problems from the textbook.
- Tutorial Videos -- step-by-step guidance on how to solve example problems.
- Correlation Guide -- a catalog detailing which problems are new and which are retained from the previous edition, allowing a smooth transition to this new edition.

**Student Resources**

- Tutorial Videos offer step-by-step guidance on how to solve example problems.
- Answers to selected problems
FEATURES

• Updated examples guarantee coverage is consistent with the latest MATLAB version

• Revised homework problems cover a wider range of applications

• New tutorial videos offer students "virtual office hours"

• Homework problems at the end of each chapter cover general math and science topics as well as problems from different disciplines of engineering

• Each chapter includes formal sample problems that are examples of applications of MATLAB for solving problems in math, science, and engineering. Each example includes a problem statement and a detailed solution

• All chapters (except Chapter 2) have a section at the end with several sample problems of applications

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