

1. Record Nr.	UNINA9910137747003321
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Titolo	MATLAB : a ubiquitous tool for the practical engineer / / Clara Ionescu, editor
Pubbl/distr/stampa	IntechOpen, 2011 [Place of publication not identified] : , : InTech, , [2011] ©2011
ISBN	953-51-5552-0
Edizione	[1st ed.]
Descrizione fisica	1 online resource (560 pages) : illustrations
Disciplina	620.00151
Soggetti	Engineering mathematics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references.
Sommario/riassunto	A well-known statement says that the PID controller is the "bread and butter" of the control engineer. This is indeed true, from a scientific standpoint. However, nowadays, in the era of computer science, when the paper and pencil have been replaced by the keyboard and the display of computers, one may equally say that MATLAB is the "bread" in the above statement. MATLAB has become a de facto tool for the modern system engineer. This book is written for both engineering students, as well as for practicing engineers. The wide range of applications in which MATLAB is the working framework, shows that it is a powerful, comprehensive and easy-to-use environment for performing technical computations. The book includes various excellent applications in which MATLAB is employed: from pure algebraic computations to data acquisition in real-life experiments, from control strategies to image processing algorithms, from graphical user interface design for educational purposes to Simulink embedded systems.