

1. Record Nr.	UNINA9910155108203321
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Titolo	Advanced engineering mathematics with MATLAB // Dean G. Duffy
Pubbl/distr/stampa	Boca Raton : , : CRC Press, , [2017] ©2017
ISBN	1-4987-3966-0 1-315-36928-1 1-4987-3967-9
Edizione	[Fourth edition.]
Descrizione fisica	1 online resource (1,005 pages) : illustrations
Collana	Advances in applied mathematics
Disciplina	620.0028553
Soggetti	Engineering mathematics - Data processing
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	"A Chapman & Hall book."
Nota di contenuto	Classic engineering mathematics -- Transform methods -- Stochastic processes.
Sommario/riassunto	Advanced Engineering Mathematics with MATLAB, Fourth Edition builds upon three successful previous editions. It is written for today's STEM (science, technology, engineering, and mathematics) student. Three assumptions underlie its structure: (1) All students need a firm grasp of the traditional disciplines of ordinary and partial differential equations, vector calculus and linear algebra. (2) The modern student must have a strong foundation in transform methods because they provide the mathematical basis for electrical and communication studies. (3) The biological revolution requires an understanding of stochastic (random) processes. The chapter on Complex Variables, positioned as the first chapter in previous editions, is now moved to Chapter 10. The author employs MATLAB to reinforce concepts and solve problems that require heavy computation. Along with several updates and changes from the third edition, the text continues to evolve to meet the needs of today's instructors and students.