

1. Record Nr.	UNINA9911002561003321
Autore	Sobot Robert
Titolo	Engineering Mathematics by Example : Vol. III: Special Functions and Transformations / / by Robert Sobot
Pubbl/distr/stampa	Cham : , : Springer Nature Switzerland : , : Imprint : Springer, , 2025
ISBN	3-031-81104-6
Edizione	[3rd ed. 2025.]
Descrizione fisica	1 online resource (318 pages)
Disciplina	620.00151
Soggetti	Electronic circuit design Engineering mathematics Functions, Special Electronics Design and Verification Engineering Mathematics Special Functions
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Part 1 Continuous time domain -- Chapter 1 Elementary Special Functions -- Chapter 2 Continuous Time Convolution -- Chapter 3 Continuous Time Fourier Transform -- Chapter 4 Fourier Series -- Chapter 5 Laplace Transform -- Part 2 Discrete time domain -- Chapter 6 Series -- Chapter 7 Discrete Time Convolution -- Chapter 8 Discrete Time Fourier Transform.
Sommario/riassunto	This textbook is a complete, self-sufficient, self-study/tutorial-type source of mathematical problems. It serves as a primary source for practicing and developing mathematical skills and techniques that will be essential in future studies and engineering practice. Rigor and mathematical formalism is drastically reduced, while the main focus is on developing practical skills and techniques for solving mathematical problems, given in forms typically found in engineering and science. These practical techniques are split into three separate books: the topics of algebra, complex algebra, and linear algebra (Vol. I), calculus of single and multiple argument functions (Vol. II), continues and discrete Convolution and Fourier integrals/sums of typical functions used in signal processing, and Laplace transform examples (Vol. III).

Offers a large collection of progressively more sophisticated problems on main mathematical topics; Provides, at the beginning of each topic, a brief review of definitions and formulas that are about to be used; Includes tutorial-style, complete solutions, to all problems.
