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	Titolo	Engineering Mathematics by Example [[electronic resource]] : Vol. II: Calculus / / by Robert Sobot
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	ISBN	3-031-41196-X
	Edizione	[2nd ed. 2023.]
	Descrizione fisica	1 online resource (511 pages)
	Disciplina	621.3815
	Soggetti	Electronic circuits
		Signal processing
		Engineering mathematics
		Electronic Circuits and Systems
		Signal, Speech and Image Processing
		Engineering Mathematics
	Lingua di pubblicazione	Inglese
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	Nota di contenuto	Basic Number Theory -- Polynomials -- Linear Equations and Inequalities -- Exponential and Logarithmic Functions -- Trigonometry -- Complex Algebra -- Linear Algebra -- Limits -- Derivatives -- Function Analysis -- Integrals -- Multivariable Functions -- Complex Functions in Engineering and Science -- Differential Equations -- Special Functions -- Convolution Integral -- Series -- Discrete Convolution Sum -- Fourier Integral -- Discrete Fourier Integral.
	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), and continues and discrete Convolution and Fourier integrals/sums of typical functions

used in signal processing, in addition to Laplace transform examples (Vol. III). Offers a large collection of progressively more sophisticated mathematical problems on main mathematical topics required for engineers/scientists; Provides, at the beginning of each topic, a brief review of definitions and formulas that are about to be used and practiced in the following problems; followed by the additional in-line reminders embedded at the key points of most solutions; Includes tutorial-style, complete solutions, to all problems.