

1.	Record Nr.	UNICAMPANIAVAN00277897
	Titolo	Mathematics of Public Health : Proceedings of the Seminar on the Mathematical Modelling of COVID-19 / V. Kumar Murty, Jianhong Wu editors
	Pubbl/distr/stampa	Cham, : Springer, 2022
	Descrizione fisica	x, 353 p. : ill. ; 24 cm
	Soggetti	00B25 - Proceedings of conferences of miscellaneous specific interest [MSC 2020] 92-XX - Biology and other natural sciences [MSC 2020] 92D30 - Epidemiology [MSC 2020]
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
2.	Record Nr.	UNINA9911006703703321
	Autore	DuChateau Paul
	Titolo	Advanced Mathematics for Engineers and Scientists
	Pubbl/distr/stampa	Newburyport, : Dover Publications, 2013
	ISBN	9781523109579 1523109572 9780486141596 0486141594
	Edizione	[1st ed.]
	Descrizione fisica	1 online resource (720 p.)
	Collana	Dover Books on Mathematics
	Disciplina	515
	Soggetti	Mathematical analysis Engineering & Applied Sciences Applied Mathematics
	Lingua di pubblicazione	Inglese
	Formato	Materiale a stampa
	Livello bibliografico	Monografia
	Note generali	Description based upon print version of record.

DOVER BOOKS ON MATHEMATICS; Title Page; Dedication; Copyright Page; Table of Contents; Preface; 1 - Systems of Linear Algebraic Equations; SYSTEMS OF SIMULTANEOUS LINEAR EQUATIONS; LINEAR ALGEBRA; SOLVED PROBLEMS; 2 - Algebraic Eigenvalue Problems; DETERMINANTS; EIGENVALUES AND EIGENVECTORS; SOLVED PROBLEMS; 3 - Multivariable Calculus; MULTIVARIABLE DIFFERENTIAL CALCULUS; MULTIVARIABLE INTEGRAL CALCULUS; SOLVED PROBLEMS; 4 - Ordinary Differential Equations: Linear Initial Value Problems; INITIAL VALUE PROBLEMS FOR SINGLE EQUATIONS; SOLVED PROBLEMS 5 - Nonlinear Ordinary Differential EquationsNONLINEAR EQUATIONS; NONLINEAR SYSTEMS; SOLVED PROBLEMS; 6 - Linear Boundary Value Problems; LINEAR BOUNDARY VALUE PROBLEMS; STURM-LIOUVILLE PROBLEMS; A FUNCTION SPACE; SINGULAR STURM-LIOUVILLE PROBLEMS; SOLVED PROBLEMS; 7 - Fourier Series and Eigenfunction Expansions; FORMAL PROPERTIES OF FOURIER SERIES; GENERALIZED FOURIER SERIES; SOLVED PROBLEMS; Convergence of Fourier Series; 8 - Integral Transforms; THE FOURIER TRANSFORM; LAPLACE TRANSFORM; SOLVED PROBLEMS; 9 - Linear Problems in Partial Differential Equations; PARTIAL DIFFERENTIAL EQUATIONS SOLVED PROBLEMS10 - Linear and Nonlinear Partial Differential Equations; FIRST ORDER EQUATIONS; SOLVED PROBLEMS; 11 - Functional Optimization and Variational Methods; FUNCTIONAL OPTIMIZATION; SOLVED PROBLEMS; 12 - Finite Difference Methods for Differential Equations; ORDINARY DIFFERENTIAL EQUATIONS; PARTIAL DIFFERENTIAL EQUATIONS; SOLVED PROBLEMS; 13 - Introduction to the Finite Element Method; APPROXIMATION METHODS; THE FINITE ELEMENT METHOD; SOLVED PROBLEMS; Index

This book can be used as either a primary text or a supplemental reference for courses in applied mathematics. Its core chapters are devoted to linear algebra, calculus, and ordinary differential equations. Additional topics include partial differential equations and approximation methods. Each chapter features an ample selection of solved problems. These problems were chosen to illustrate not only how to solve various algebraic and differential equations but also how to interpret the solutions in order to gain insight into the behavior of the system modeled by the equation. In addition to th