Record Nr.	UNINA9910299786603321
Autore	Logan J. David
Titolo	A First Course in Differential Equations / / by J. David Logan
Pubbl/distr/stampa	Cham : , : Springer International Publishing : , : Imprint : Springer, , 2015
ISBN	3-319-17852-0
Edizione	[3rd ed. 2015.]
Descrizione fisica	1 online resource (XIII, 369 p. 101 illus., 13 illus. in color.)
Collana	Undergraduate Texts in Mathematics, , 0172-6056
Disciplina	515.35
Soggetti	Differential equations
	Mathematical models
	Applied mathematics
	Engineering mathematics
	Ordinary Differential Equations
	Mathematical Modeling and Industrial Mathematics
	Applications of Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Preface to the Third Edition1. First-Order Differential Equations 2. Second-Order Linear Equations 3. Laplace Transforms 4. Linear Systems 5. Nonlinear Systems 6. Computation of Solutions
	(R) Supplement References Index.

1.

Two appendices include a review with practice problems, and a MATLAB® supplement that gives basic codes and commands for solving differential equations. MATLAB® is not required; students are encouraged to utilize available software to plot many of their solutions. Solutions to even-numbered problems are available on springer.com. From the reviews of the second edition: "The coverage of linear systems in the plane is nicely detailed and illustrated. ... Simple numerical methods are illustrated and the use of Maple and MATLAB is encouraged. ...select Dave Logan's new and improved text for my course." — Robert E. O'Malley, Jr., SIAM Review, Vol. 53 (2), 2011 "Aims to provide material for a one-semester course that emphasizes the basic ideas, solution methods, and an introduction to modeling. ... The book that results offers a concise introduction to the subject for students of mathematics, science and engineering who have completed the introductory calculus sequence. ... This book is worth a careful look as a candidate text for the next differential equations course you teach." — William J. Satzer, MAA Reviews, January, 2011.