

1. Record Nr.	UNISA996211739203316
Autore	Schiesser W. E.
Titolo	Differential equation analysis in biomedical science and engineering : ordinary differential equation applications with R / / William E. Schiesser
Pubbl/distr/stampa	Hoboken, New Jersey : , : Wiley, , 2014 ©2014
ISBN	1-118-70523-8 1-118-70507-6 1-118-70539-4
Descrizione fisica	1 online resource (439 p.)
Disciplina	610.280285
Soggetti	Biomedical engineering - Mathematics Biomathematics Bioreactors - Data processing Differential equations Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references at the end of each chapters and index.
Nota di contenuto	Introduction to ordinary differential equation analysis bioreactor dynamics -- Diabetes glucose tolerance test -- Apoptosis (programmed cell death) -- Dynamic neuron model -- Stem cell differentiation -- Acetylcholine neurocycle -- Tuberculosis with differential infectivity -- Corneal curvature -- Stiff ode integration.
Sommario/riassunto	Features a solid foundation of mathematical and computational tools to formulate and solve real-world ODE problems across various fields With a step-by-step approach to solving ordinary differential equations (ODEs), Differential Equation Analysis in Biomedical Science and Engineering: Ordinary Differential Equation Applications with R successfully applies computational techniques for solving real- worldODE problems that are found in a variety of fields, including chemistry, physics, biology,and physiology. The book provides readers with the necessary knowledge to reprodu

