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Autore	Rainie, Lee
Titolo	Networked : il nuovo sistema operativo sociale / Lee Raine, Barry Wellman ; a cura di Alberto Marinelli e Francesca Comunello
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Altri autori (Persone)	Wellman, Barry
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Autore	Shchepakina Elena
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Soggetti	Differential equations Dynamics Ergodic theory Mathematical physics Biomathematics Applied mathematics Engineering mathematics Thermodynamics Heat engineering Heat transfer Mass transfer Ordinary Differential Equations Dynamical Systems and Ergodic Theory Mathematical Applications in the Physical Sciences Mathematical and Computational Biology Mathematical and Computational Engineering Engineering Thermodynamics, Heat and Mass Transfer
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Sommario/riassunto

These lecture notes provide a fresh approach to investigating singularly perturbed systems using asymptotic and geometrical techniques. It gives many examples and step-by-step techniques, which will help beginners move to a more advanced level. Singularly perturbed systems appear naturally in the modelling of many processes that are characterized by slow and fast motions simultaneously, for example, in fluid dynamics and nonlinear mechanics. This book's approach consists in separating out the slow motions of the system under investigation. The result is a reduced differential system of lesser order. However, it inherits the essential elements of the qualitative behaviour of the original system. Singular Perturbations differs from other literature on the subject due to its methods and wide range of applications. It is a valuable reference for specialists in the areas of applied mathematics, engineering, physics, biology, as well as advanced undergraduates for the earlier parts of the book, and graduate students for the later chapters.
