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Autore	Convegno Partecipazione e democrazia per una scuola rinnovata. Dopo i decreti delegati <1974 ; Firenze>
Titolo	La gestione democratica della scuola : atti del Convegno Partecipazione e democrazia per una scuola rinnovata : dopo i decreti delegati : promosso dalla Giunta regionale toscana e dalle riviste educative de La nuova Italia : (Firenze, 18-20 ottobre 1974)
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Collana	Scuola e educazione nel mondo ; 18
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2. Record Nr.	UNINA9910835059903321
Autore	Barreira Luis
Titolo	Spectra and Normal Forms / / by Luís Barreira, Claudia Valls
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Lingua di pubblicazione	Inglese
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Nota di contenuto	Preface -- 1. Spectra and Examples -- 2. Asymptotic Behavior -- 3. Resonances and Normal Forms -- 4. Parameter-Dependent Dynamics -- 5. The Case of Differential Equations -- 6. Infinite-Dimensional Dynamics -- 7. Stable and Unstable Foliations -- 8. Construction of Smooth Conjugacies -- References.
Sommario/riassunto	This book presents the reader with a streamlined exposition of the notions and results leading to the construction of normal forms and, ultimately, to the construction of smooth conjugacies for the perturbations of tempered exponential dichotomies. These are exponential dichotomies for which the exponential growth rates of the underlying linear dynamics never vanish. In other words, its Lyapunov exponents are all nonzero. The authors consider mostly difference equations, although they also briefly consider the case of differential equations. The content is self-contained and all proofs have been simplified or even rewritten on purpose for the book so that all is as streamlined as possible. Moreover, all chapters are supplemented by detailed notes discussing the origins of the notions and results as well as their proofs, together with the discussion of the proper context, also with references to precursor results and further developments. A useful

chapter dependence chart is included in the Preface. The book is aimed at researchers and graduate students who wish to have a sufficiently broad view of the area, without the discussion of accessory material. It can also be used as a basis for graduate courses on spectra, normal forms, and smooth conjugacies. The main components of the exposition are tempered spectra, normal forms, and smooth conjugacies. The first two lie at the core of the theory and have an importance that undoubtedly surpasses the construction of conjugacies. Indeed, the theory is very rich and developed in various directions that are also of interest by themselves. This includes the study of dynamics with discrete and continuous time, of dynamics in finite and infinite-dimensional spaces, as well as of dynamics depending on a parameter. This led the authors to make an exposition not only of tempered spectra and subsequently of normal forms, but also briefly of some important developments in those other directions. Afterwards the discussion continues with the construction of stable and unstable invariant manifolds and, consequently, of smooth conjugacies, while using most of the former material. The notion of tempered spectrum is naturally adapted to the study of nonautonomous dynamics. The reason for this is that any autonomous linear dynamics with a tempered exponential dichotomy has automatically a uniform exponential dichotomy. Most notably, the spectra defined in terms of tempered exponential dichotomies and uniform exponential dichotomies are distinct in general. More precisely, the tempered spectrum may be smaller, which causes that it may lead to less resonances and thus to simpler normal forms. Another important aspect is the need for Lyapunov norms in the study of exponentially decaying perturbations and in the study of parameter-dependent dynamics. Other characteristics are the need for a spectral gap to obtain the regularity of the normal forms on a parameter and the need for a careful control of the small exponential terms in the construction of invariant manifolds and of smooth conjugacies.
