

1. Record Nr.	UNINA9910815303303321
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Titolo	Smooth analysis in Banach spaces // by Petr Hajek, Michal Johanis
Pubbl/distr/stampa	Berlin ; ; Boston : , : Walter de Gruyter GmbH & Company, KG, , [2014] ©2014
ISBN	3-11-025899-4 3-11-039199-6
Descrizione fisica	XVI, 497 p. ; ; 25 cm
Collana	De Gruyter series in nonlinear analysis and applications, , 0941-813X ; ; 19
Classificazione	SK 600
Disciplina	515/.732
Soggetti	Banach spaces Normed linear spaces Polynomials
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	MSC 46Bxx ; 46E15 ; 15A03
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Introduction -- Chapter 1. Fundamental properties of smoothness -- Chapter 2. Basic properties of polynomials on R^n -- Chapter 3. Weak continuity of polynomials and estimates of coefficients -- Chapter 4. Asymptotic properties of polynomials -- Chapter 5. Smoothness and structure -- Chapter 6. Structural behaviour of smooth mappings -- Chapter 7. Smooth approximation -- Bibliography -- Notation -- Index
Sommario/riassunto	The purpose of this book is to lay down the foundations for the abstract theory of C^k -smoothness in infinite-dimensional real Banach spaces, and investigate its intimate connections with the structural properties of the underlying spaces.