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ISBN	3-540-45592-2
Edizione	[1st ed. 2000.]
Descrizione fisica	1 online resource (XI, 252 p.)
Collana	Lecture Notes in Mathematics, , 0075-8434 ; ; 1733
Disciplina	519.4
Soggetti	Numerical analysis
	Statistics
	Numerical Analysis
	Statistics, general
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Formato	Materiale a stampa
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Note generali	Bibliographic Level Mode of Issuance: Monograph
Nota di contenuto	Linear problems: Definitions and a classical example Second-order results for linear problems Integration and approximation of univariate functions Linear problems for univariate functions with noisy data Integration and approximation of multivariate functions Nonlinear methods for linear problems Nonlinear problems.
Sommario/riassunto	The average-case analysis of numerical problems is the counterpart of the more traditional worst-case approach. The analysis of average error and cost leads to new insight on numerical problems as well as to new algorithms. The book provides a survey of results that were mainly obtained during the last 10 years and also contains new results. The problems under consideration include approximation/optimal recovery and numerical integration of univariate and multivariate functions as well as zero-finding and global optimization. Background material, e.g. on reproducing kernel Hilbert spaces and random fields, is provided.

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