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Titolo	Stochastic Programming : Modeling Decision Problems Under Uncertainty / / by Willem K. Klein Haneveld, Maarten H. van der Vlerk, Ward Romeijn
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Descrizione fisica	1 online resource (255 pages) : illustrations
Collana	Graduate Texts in Operations Research, , 2662-6012
Disciplina	519.7
Soggetti	Operations research Decision making Probabilities Mathematical optimization Economics Operations Research/Decision Theory Probability Theory and Stochastic Processes Optimization Economic Theory/Quantitative Economics/Mathematical Methods
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Random Objective Functions -- Recourse Models -- Stochastic Mixed-integer Programming -- Chance Constraints -- Integrated Chance Constraints -- Assignments -- Case Studies.
Sommario/riassunto	This book provides an essential introduction to Stochastic Programming, especially intended for graduate students. The book begins by exploring a linear programming problem with random parameters, representing a decision problem under uncertainty. Several models for this problem are presented, including the main ones used in Stochastic Programming: recourse models and chance constraint models. The book not only discusses the theoretical properties of these models and algorithms for solving them, but also explains the intrinsic differences between the models. In the book's closing section, several case studies are presented, helping students apply the theory covered

to practical problems. The book is based on lecture notes developed for an Econometrics and Operations Research course for master students at the University of Groningen, the Netherlands - the longest-standing Stochastic Programming course worldwide.
