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Autore	Epstein Charles L
Titolo	Degenerate diffusion operators arising in population biology [[electronic resource] /] / Charles L. Epstein and Rafe Mazzeo
Pubbl/distr/stampa	Princeton, : Princeton University Press, 2013
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Edizione	[Course Book]
Descrizione fisica	1 online resource (321 p.)
Collana	Annals of mathematics studies ; ; number 185
Classificazione	SI 830
Altri autori (Persone)	MazzeoRafe
Disciplina	577.8/801519233
Soggetti	Elliptic operators Markov processes Population biology - Mathematical models Electronic books.
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Description based upon print version of record.
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Front matter -- Contents -- Preface -- Chapter 1. Introduction -- Part I. Wright-Fisher Geometry and the Maximum Principle -- Chapter 2. Wright-Fisher Geometry -- Chapter 3. Maximum Principles and Uniqueness Theorems -- Part II. Analysis of Model Problems -- Chapter 4. The Model Solution Operators -- Chapter 5. Degenerate Hölder Spaces -- Chapter 6. Hölder Estimates for the 1-dimensional Model Problems -- Chapter 7. Hölder Estimates for Higher Dimensional Corner Models -- Chapter 8. Hölder Estimates for Euclidean Models -- Chapter 9. Hölder Estimates for General Models -- Part III. Analysis of Generalized Kimura Diffusions -- Chapter 10. Existence of Solutions -- Chapter 11. The Resolvent Operator -- Chapter 12. The Semi-group on ${}^{\circ}(P)$ -- Appendix A: Proofs of Estimates for the Degenerate 1-d Model -- Bibliography -- Index
Sommario/riassunto	This book provides the mathematical foundations for the analysis of a class of degenerate elliptic operators defined on manifolds with corners, which arise in a variety of applications such as population genetics, mathematical finance, and economics. The results discussed in this book prove the uniqueness of the solution to the Martingale

problem and therefore the existence of the associated Markov process. Charles Epstein and Rafe Mazzeo use an "integral kernel method" to develop mathematical foundations for the study of such degenerate elliptic operators and the stochastic processes they define. The precise nature of the degeneracies of the principal symbol for these operators leads to solutions of the parabolic and elliptic problems that display novel regularity properties. Dually, the adjoint operator allows for rather dramatic singularities, such as measures supported on high co-dimensional strata of the boundary. Epstein and Mazzeo establish the uniqueness, existence, and sharp regularity properties for solutions to the homogeneous and inhomogeneous heat equations, as well as a complete analysis of the resolvent operator acting on Hölder spaces. They show that the semigroups defined by these operators have holomorphic extensions to the right half-plane. Epstein and Mazzeo also demonstrate precise asymptotic results for the long-time behavior of solutions to both the forward and backward Kolmogorov equations.

2. Record Nr.	UNINA9910454966703321
Autore	Berger T. A
Titolo	Packed column SFC [[electronic resource] /] / T.A. Berger
Pubbl/distr/stampa	Cambridge, : Royal Society of Chemistry, 1995
ISBN	1-84755-160-2
Descrizione fisica	1 online resource (268 p.)
Collana	RSC chromatography monographs
Disciplina	543.0894
Soggetti	Supercritical fluid chromatography Electronic books.
Lingua di pubblicazione	Inglese
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Sommario/riassunto

Packed Column SFC is the third title to be published in this series and has been produced as a result of the dramatic re-emergence, in the last three years, of packed column instrumentation. This has led to a redefinition of the technique and an urgent need for a practical guide that deals with its subtleties. This book fulfils that need and deals exclusively with packed column SFC. It places the emphasis on understanding the underlying chemistry in order to perform rapid, systematic optimizations and provides many practical tips to help the new user avoid problems unique to SFC. It also propos
