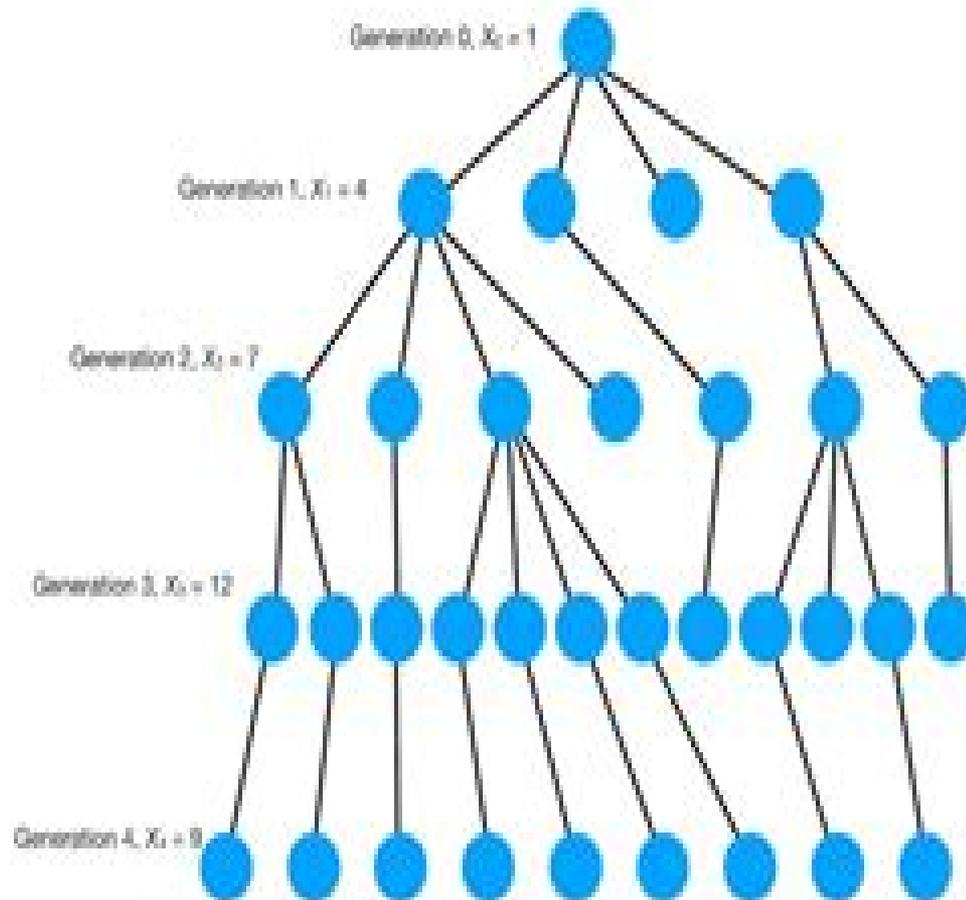


Branching Processes



The Theory Of Branching Processes

David Robert Grey



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Branching Processes K. B. Athreya, Peter E. Ney, P. E. Ney, 2004-03-19 A unified treatment of the limit theory of branching processes this volume focuses on basics and is appropriate for graduate and advanced undergraduate students The authors cover basic Galton Watson process potential theory one dimensional continuous time Markov branching processes age dependent processes multi type branching processes and special processes Exercises 1972 edition

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activity in this field As a result all those undertaking research in the subject will find this a timely and high quality volume to have on their shelves

Branching Processes Asmussen, Hering, 2013-06-29 Branching processes form one of the classical fields of applied probability and are still an active area of research The field has by now grown so large and diverse that a complete and unified treatment is hardly possible anymore let alone in one volume So our aim here has been to single out some of the more recent developments and to present them with sufficient background material to obtain a largely self contained treatment intended to supplement previous monographs rather than to overlap them The body of the text is divided into four parts each of its own flavor Part A is a short introduction stressing examples and applications In Part B we give a self contained and up to date presentation of the classical limit theory of simple branching processes viz the Galton Watson Bienayme G W process and its continuous time analogue Part C deals with the limit theory of Ilarkov branching processes with a general set of types under conditions tailored to multigroup branching diffusions on bounded domains a setting which also covers the ordinary multitype case Whereas the point of view in Parts A and B is quite pedagogical the aim of Part C is to treat a large subfield to the highest degree of generality and completeness possible Thus the exposition there is at times quite technical

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Branching Processes and Neutral Evolution Ziad Taib, 2013-03-09 The Galton Watson branching process has its roots in the problem of extinction of family names which was given a precise formulation by F Galton as problem 4001 in the Educational Times 17 1873 In 1875 an attempt to solve this problem was made by H W Watson but as it turned out his conclusion was incorrect Half a century later R A Fisher made use of the Galton Watson process to determine the extinction probability of the progeny of a mutant gene However it was J B S Haldane who finally gave the first sketch of the correct conclusion J B S Haldane also predicted that mathematical genetics might some day develop into a respectable branch of applied mathematics quoted in M Kimura T Ohta Theoretical Aspects of Population Genetics Princeton 1971 Since the time of Fisher and Haldane the two fields of branching processes and mathematical genetics have attained a high degree of sophistication but in different directions This monograph is a first attempt to apply the current state of knowledge concerning single type branching processes to a particular area of mathematical genetics neutral evolution The reader is assumed to be familiar with some of the concepts of probability theory but no particular knowledge of branching processes is required Following the advice of an anonymous referee I have enlarged my original version of the introduction Chapter Zero in order to make it accessible to a larger audience Göteborg Sweden November 1991

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