
Biomathematical Problems in Optimization of Cancer Radiotherapy

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Biomathematical Problems in Optimization of Cancer Radiotherapy A.Y. Yakovlev, L. Pavlova, L.G.

Hanin, 2020-11-25 Biomathematical Problems in Optimization of Cancer Radiotherapy provides insight into the role of cell population heterogeneity in the optimal control of fractionated irradiation of tumors. The book emphasizes the mathematical modeling aspect of the problem and presents the state of the art in the stochastic description of irradiated cell survival. Some of the results are of general theoretical interest and can be applied to other areas of optimal control methodology. Detailed explanations of all mathematical statements are provided throughout the text. The book is excellent for biomathematicians, radiotherapists, oncologists, health physicists, and other researchers and students interested in the topic. **Optimization**

Problems in Radiotherapy for Hypoxic Tumors Alexei V. Chvetsov, 2025-06-24 This book highlights the mathematical aspects of treatment outcomes analysis and dose optimization in radiotherapy for heterogeneous hypoxic tumors. Hypoxia is a major factor of cancer resistance to radiotherapy treatment and is present in most tumors encountered in humans. The author tried to present a systematic consideration of radiotherapy for hypoxic tumors but the emphasis was put on mathematical content of the problems. The book contains new approaches to the concepts of tumor control probability, equivalent uniform dose, and radiotherapy dose optimization for hypoxic tumors developed by the author. Significant attention in this book is paid to comparison of models with measured and clinical data; therefore, the reduction of model parameters to overcome overfitting, model parsimony, was followed as much as possible. *Stochastic Models of Tumor Latency and Their*

Biostatistical Applications Andrej Yu Yakovlev, A. D. Tsodikov, B. Asselain, 1996 This research monograph discusses newly developed mathematical models and methods that provide biologically meaningful inferences from data on cancer latency produced by follow-up and discrete surveillance studies. Methods for designing optimal strategies of cancer surveillance are systematically presented for the first time in this book. It offers new approaches to the stochastic description of tumor latency, employs biologically based models for making statistical inference from data on tumor recurrence, and also discusses methods of statistical analysis of data resulting from discrete surveillance strategies. It also offers insight into the role of prognostic factors based on the interpretation of their effects in terms of parameters endowed with biological meaning, as well as methods for designing optimal schedules of cancer screening and surveillance. Last but not least, it discusses survival models allowing for cure rates and the choice of optimal treatment based on covariate information and presents numerous examples of real data analysis. *Statistical Modeling for Biological Systems* Anthony Almudevar, David Oakes, Jack

Hall, 2020-03-11 This book commemorates the scientific contributions of distinguished statistician Andrei Yakovlev. It reflects upon Dr. Yakovlev's many research interests, including stochastic modeling and the analysis of microarray data, and throughout the book it emphasizes applications of the theory in biology, medicine, and public health. The contributions to this volume are divided into two parts. Part A consists of original research articles which can be roughly grouped into four

thematic areas i branching processes especially as models for cell kinetics ii multiple testing issues as they arise in the analysis of biologic data iii applications of mathematical models and of new inferential techniques in epidemiology and iv contributions to statistical methodology with an emphasis on the modeling and analysis of survival time data Part B consists of methodological research reported as a short communication ending with some personal reflections on research fields associated with Andrei and on his approach to science The Appendix contains an abbreviated vitae and a list of Andrei's publications complete as far as we know The contributions in this book are written by Dr Yakovlev's collaborators and notable statisticians including former presidents of the Institute of Mathematical Statistics and of the Statistics Section of the AAAS Dr Yakovlev's research appeared in four books and almost 200 scientific papers in mathematics statistics biomathematics and biology journals Ultimately this book offers a tribute to Dr Yakovlev's work and recognizes the legacy of his contributions in the biostatistics community

National Library of Medicine Current Catalog National Library of Medicine (U.S.),1982 **Mixed Models** Eugene Demidenko,2005-01-28 A rigorous self contained examination of mixed model theory and application Mixed modeling is one of the most promising and exciting areas of statistical analysis enabling the analysis of nontraditional clustered data that may come in the form of shapes or images This book provides in depth mathematical coverage of mixed models statistical properties and numerical algorithms as well as applications such as the analysis of tumor regrowth shape and image Paying special attention to algorithms and their implementations the book discusses Modeling of complex clustered or longitudinal data Modeling data with multiple sources of variation Modeling biological variety and heterogeneity Mixed model as a compromise between the frequentist and Bayesian approaches Mixed model for the penalized log likelihood Healthy Akaike Information Criterion HAIC How to cope with parameter multidimensionality How to solve ill posed problems including image reconstruction problems Modeling of ensemble shapes and images Statistics of image processing Major results and points of discussion at the end of each chapter along with Summary Points sections make this reference not only comprehensive but also highly accessible for professionals and students alike in a broad range of fields such as cancer research computer science engineering and industry

Advances In Mathematical Population Dynamics -- Molecules, Cells And Man - Proceedings Of The 4th International Conference On Mathematical Population Dynamics O Arino,David E Axelrod,Marek Kimmel,1997-12-04 This book presents a new approach to the subject of cosmology It fully exploits Einstein's theory of general relativity It is found that the most general formal expression of the theory replaces the 10 component tensor formalism with a 16 component quaternion formalism This leads to a unified field theory where one field incorporates gravitation and electromagnetism The theory predicts an oscillating universe cosmology with a spiral configuration Dark matter is explained in terms of a sea of particle antiparticle pairs each in a particular derived ground state This leads to an explanation for the separation between matter and antimatter in the universe There is a brief discussion of black holes and pulsars The final chapter delves into philosophical considerations such

as the different types of truth positivism versus realism and a discussion of the role of the Mach principle in physics and cosmology a **Biomedical Index to PHS-supported Research: pt. A. Subject access A-H**, 1992 **KfK**, 1994

Stability Problems for Stochastic Models Vladimir V. Kalashnikov, Vladimir M. Zolotarev, 2006-11-14 Traditionally the Stability seminar organized in Moscow but held in different locations has dealt with a spectrum of topics centering around characterization problems and their stability limit theorems probability metrics and theoretical robustness This volume likewise focusses on these main topics in a series of original and recent research articles **The Cumulative Book Index**, 1995 A world list of books in the English language **Automatic Control and Computer Sciences**, 2004

Forthcoming Books Rose Arny, 1994-02 **Cell Kinetic Modelling and the Chemotherapy of Cancer** Helmut Knolle, 2013-03-08 During the last 30 years many chemical compounds that are active against tumors have been discovered or developed At the same time new methods of testing drugs for cancer therapy have evolved before 1964 drug testing on animal tumors was directed to observation of the increase in life span of the host after a single dose A new approach in which the effects of multiple doses on the proliferation kinetics of the tumor in vivo as well as of cell lines in vitro are investigated has been outlined by Skipper and his co workers in a series of papers beginning in 1964 Skipper Schabel and Wilcox 1964 and 1965 They also investigated the influence of the time schedule in the treatment of experimental tumors Since the publication of those studies cell population kinetics cannot be left out of any discussion of the rational basis of chemotherapy When clinical oncologists began to apply cell kinetic concepts in practice about 15 years ago the theoretical basis was still very poor in spite of Skipper's progress and the lack of relevant cytokinetic and pharmacologic data was apparent Subsequently much theoretical work has been done and many cell kinetic models have been elaborated for a review see Eisen 1977 **Biomedical Index to PHS-supported Research**, 1993 **Mathematical Approaches to Problems in**

Resource Management and Epidemiology Carlos Castillo-Chavez, Simon A. Levin, Christine A. Shoemaker, 2013-03-08 Increasingly mathematical methods are being used to advantage in addressing the problems facing humanity in managing its environment Problems in resource management and epidemiology especially have demonstrated the utility of quantitative modeling To explore these approaches the Center of Applied Mathematics at Cornell University organized a conference in Fall 1987 with the objective of surveying and assessing the state of the art This volume records the proceedings of that conference Underlying virtually all of these studies are models of population growth from individual cells to large vertebrates Cell population growth presents the simplest of systems for study and is of fundamental importance in its own right for a variety of medical and environmental applications In Part I of this volume Michael Shuler describes computer models of individual cells and cell populations and Frank Hoppensteadt discusses the synchronization of bacterial culture growth Together these provide a valuable introduction to mathematical cell biology **Research Awards Index**, 1989 *Subject Index of Current Extramural Research Administered by the National Cancer Institute*, 1978 **Research Grants Index**

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