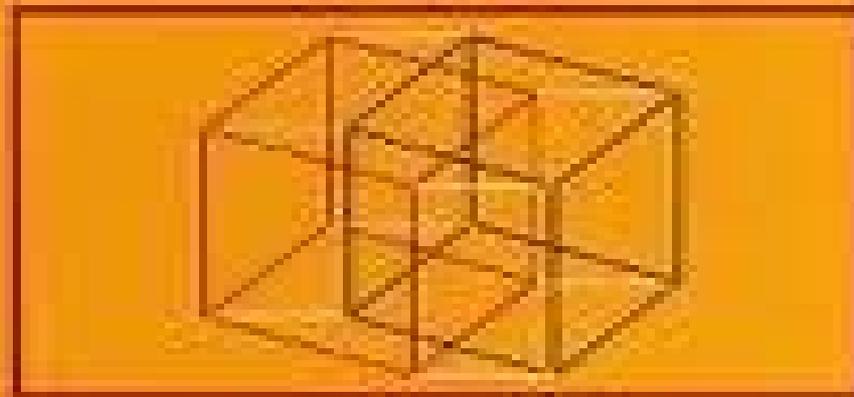


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Computer Graphics and Geometric Modelling Max K. Agoston, 2005-09-05. Possibly the most comprehensive overview of computer graphics as seen in the context of geometric modelling, this two volume work covers implementation and theory in a thorough and systematic fashion. **Computer Graphics and Geometric Modelling Mathematics** contains the mathematical background needed for the geometric modeling topics in computer graphics covered in the first volume. This volume begins with material from linear algebra and a discussion of the transformations in affine projective geometry followed by topics from advanced calculus, chapters on general topology, combinatorial topology, algebraic topology, differential topology, differential geometry and finally algebraic geometry. Two important goals throughout were to explain the material thoroughly and to make it self contained. This volume by itself would make a good mathematics reference book in particular for practitioners in the field of geometric modelling. Due to its broad coverage and emphasis on explanation it could be used as a text for introductory mathematics courses on some of the covered topics such as topology, general combinatorial algebraic and differential and geometry differential algebraic.

Introduction to Optimal Control Theory Jack Macki, Aaron Strauss, 2012-12-06. This monograph is an introduction to optimal control theory for systems governed by vector ordinary differential equations. It is not intended as a state of the art handbook for researchers. We have tried to keep two types of reader in mind: 1. mathematicians, graduate students and advanced undergraduates in mathematics who want a concise introduction to a field which contains nontrivial interesting applications of mathematics for example weak convergence, convexity and the theory of ordinary differential equations; 2. economists, applied scientists and engineers who want to understand some of the mathematical foundations of optimal control theory. In general we have emphasized motivation and explanation avoiding the definition, axiom, theorem, proof approach. We make use of a large number of examples, especially one simple canonical example which we carry through the entire book. In proving theorems we often just prove the simplest case then state the more general results which can be proved. Many of the more difficult topics are discussed in the Notes sections at the end of chapters and several major proofs are in the Appendices. We feel that a solid understanding of basic facts is best attained by at first avoiding excessive generality. We have not tried to give an exhaustive list of references, preferring to refer the reader to existing books or papers with extensive bibliographies. References are given by author's name and the year of publication, e.g. Waltman 1974.

Functions of Several Variables Wendell H Fleming, 1987-06-10 This new edition like the first presents a thorough introduction to differential and integral calculus including the integration of differential forms on manifolds However an additional chapter on elementary topology makes the book more complete as an advanced calculus text and sections have been added introducing physical applications in thermodynamics fluid dynamics and classical rigid body mechanics

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