

This book is intended for those who study, use, or develop geometric modeling systems. It is devoted to the mathematical apparatus of these systems and provides methods for constructing numerical models of the geometry of real and imaginary objects.

The book outlines the methods of geometric modeling, including methods for constructing curves, surfaces, and solids. It describes the algorithms and data structures of geometric objects. It also presents principles of interconnection between elements of a model. The book examines some applications of geometric model. The obox examines some applications of geometric model.

This book is based on the author's experience gained during the development of the C3D geometric kernel.





Joel N. Orr, Ph.D.



Ken Versprille, Ph.D.



In 1989 his colleagues Alexander Golikov and Tatiana Yankina left three-dimensional models, Nikolay Golovanov joined ASCON in 1994 company's CAD KOMPAS-3D. Today he continues to develop algorithms and to improve the C3D kernel - the only commercial 3D kernel



C3D Labs, part of the ASCON Group, specializes in the technology-intensive market of CAD components. The company develops and markets the C3D geometric modeling kernel, which is used by many developers of CAD systems, as well as educational institutions.





