

## **Discovering Curves and Surfaces with Maple®**

Grazyna Klimek, Maciej Klimek



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Despite the fact that Maple is one of the most popular computer algebra systems on the market, surprisingly few users realise its potential for scientific visualisation. This book equips readers with the graphics tools needed on the voyage into the complex and beautiful world of curves and surfaces. A comprehensive treatment of Maples graphics commands and structures is combined with an introduction to the main aspects of visual perception, with priority given to the use of light, colour, perspective, and geometric transformations. Numerous examples cover all aspects of Maple graphics, and these may be easily tailored to the individual needs of the reader. The approach is context-independent, and as such will appeal to students, educators, and researchers in a broad spectrum of scientific disciplines. For the general user at any level of experience, this book will serve as a comprehensive reference manual. For the beginner, it offers a user-friendly introduction to the subject, with mathematical requirements kept to a minimum, while, for those interested in advanced mathematical visualisation, it explains how to maximise Maples graphical capabilities.

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