



Basics of Computer Aided Geometric Design: An Algorithmic Approach

By M. Ganesh

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Paperback. Book Condition: New. 2nd Revised edition. 241 x 160 mm. Language: N/A. Brand New Book. The aim of this book is to provide a good foundation of Computer Aided Geometric Design to students who are doing undergraduate courses in engineering, especially Mechanical Engineering, Computer Science, Geometric Modeling, and CAD/CAM. This Second Edition is organized in three parts: Part - I deals with the basics of Differential Geometry of curves and surfaces, a good understanding of which is essential prerequisite to what follows in Part - II. Part - II is devoted entirely to the geometric designs of curves and surfaces, which are used in the development of Computer Graphics and profiles of hulls of ships, aircraft wings, satellites, (to name a few large-scale products) as also telephones, mobile phones, fancy flower vases (to name a few small-scale products). Part - III deals with certain useful generalizations of the earlier concepts, like rational Bezier and B-Spline curves and surfaces and advanced techniques like blending and corner-cutting. Concepts introduced are illustrated with examples, which are completely worked out. A list of problems is also given at the end of each chapter.



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