



## Computer Graphics for ANNA University (VII-CSE/IT-2008 Course)

By A.P. Godse,D.A. Godse

Technical Publications 0. Softcover. Book Condition: New. First edition. 2D Primitives Output primitives - Line, Circle and Ellipse drawing algorithms - Attributes of output primitives - Two dimensional geometric transformation - Two dimensional viewing - Line, Polygon, Curve and text clipping algorithms. 3D Concepts Parallel and Perspective projections - Three dimensional object representation - Polygons, Curved lines, Splines, Quadric surfaces, Visualization of data sets - 3D transformations - Viewing - Visible surface identification. Graphics Programming Color models - RGB, YIQ, CMY, HSV - Animations - General computer animation, Raster, Keyframe - Graphics programming using OPENGL - Basic graphics primitives - Drawing three dimensional objects - Drawing three dimensional scenes. Rendering Introduction to shading models - Flat and smooth shading - Adding texture to faces - Adding shadows of objects - Building a camera in a program - Creating shaded objects - Rendering texture - Drawing shadows. Fractals Fractals and self similarity - Peano curves - Creating image by iterated functions - Mandelbrot sets - Julia sets - Random fractals - Overview of ray tracing - Intersecting rays with other primitives - Adding surface texture - Reflections and transparency - Boolean operations on objects. Printed Pages: 436.



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