1. Record Nr. UNINA9910817207803321 Autore McReynolds Tom Titolo Advanced graphics programming using openGL / / Tom McReynolds, David Blythe San Francisco, CA, : Elsevier Morgan Kaufmann Publishers, c2005 Pubbl/distr/stampa **ISBN** 1-281-01007-3 9786611010072 0-08-047572-8 1-4237-0807-5 Edizione [1st edition] Descrizione fisica 1 online resource (673 p.) The Morgan Kaufmann series in computer graphics and geometric Collana modeling Altri autori (Persone) BlytheDavid <1961-> Disciplina 006.6 006.693 Soggetti Computer graphics Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references (p. 615-627) and index. Nota di contenuto Front Cover; Advanced Graphics Programming Using OpenGL; Copyright Page; Contents; Preface; Acknowledgments; Biographies; Part I: Concepts; Chapter 1. Geometry Representation and Modeling; 1.1 Polygonal Representation; 1.2 Decomposition and Tessellation; 1.3 Shading Normals; 1.4 Triangle Stripping; 1.5 Vertices and Vertex Arrays; 1.6 Modeling vs. Rendering Revisited; Chapter 2. 3D Transformations; 2.1 Data Representation; 2.2 Overview of the Transformation Pipeline; 2.3 Normal Transformation; 2.4 Texture Coordinate Generation and Transformation; 2.5 Modeling Transforms 2.6 Visualizing Transform Sequences 2.7 Projection Transform; 2.8 The Z Coordinate and Perspective Projection; 2.9 Vertex Programs; 2.10

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Sommario/riassunto

Today truly useful and interactive graphics are available on affordable computers. While hardware progress has been impressive, widespread gains in software expertise have come more slowly. Information about advanced techniques-beyond those learned in introductory computer graphics texts-is not as easy to come by as inexpensive hardware. This book brings the graphics programmer beyond the basics and introduces them to advanced knowledge that is hard to obtain outside of an intensive CG work environment. The book is about graphics techniques-those that don't require esoteric hardware or