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Autore	Gomes Jonas
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Nota di contenuto	Front Cover; Dedication; Contents; Foreword; About the Cover; Preface; 1. Introduction; 2. Geometry; 3. Coordinates; 4. The Space of Rotations; 5. Color; 6. Image; 7. Planar Graphics Objects; 8. Spatial Graphics Objects; 9. Hierarchies; 10. Geometric Modeling; 11. Virtual Camera; 12. Clipping; 13. Visibility; 14. Illumination; 15. Rasterization; 16. Mappings; 17. Composition; 18. Radiometry and Photometry; 19. The Illumination Equation; Bibliography
Sommario/riassunto	Computer Graphics: Theory and Practice provides a complete and integrated introduction to this area. The book only requires basic knowledge of calculus and linear algebra, making it an accessible introductory text for students. It focuses on conceptual aspects of computer graphics, covering fundamental mathematical theories and models and the inherent problems in implementing them. In so doing, the book introduces readers to the core challenges of the field and provides suggestions for further reading and studying on various topics. For each conceptual problem described, solution strategies are compared and presented in algorithmic form. This book, along with its

companion Design and Implementation of 3D Graphics Systems, gives readers a full understanding of the principles and practices of implementing 3D graphics systems.

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