

1. Record Nr.	UNISA996547953603316
Autore	Vince John
Titolo	Calculus for Computer Graphics / / John Vince
Pubbl/distr/stampa	Cham, Switzerland : , : Springer Nature Switzerland AG, , [2019] ©2019
ISBN	9783031281174 9783031281167
Edizione	[Third edition.]
Descrizione fisica	1 online resource (387 pages)
Disciplina	006.60151
Soggetti	Calculus Computer graphics - Mathematics
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Introduction -- Functions -- Limits and Derivatives -- Derivatives and Antiderivatives -- Higher Derivatives -- Partial Derivatives -- Integral Calculus -- Area Under a Graph -- Are Length and Parameterisation of Curves -- Surface Area -- Volume -- Vector-Valued Functions -- Vector Differential Operators -- Tangent and Normal Vectors -- Continuity -- Curvature -- Solving Differential Equations -- Conclusion. Appendix A -- Appendix B -- Index.
Sommario/riassunto	Students studying different branches of computer graphics need to be familiar with geometry, matrices, vectors, rotation transforms, quaternions, curves and surfaces. And as computer graphics software becomes increasingly sophisticated, calculus is also being used to resolve its associated problems. In this 3rd edition, the author extends the scope of the original book to include vector differential operators and differential equations and draws upon his experience in teaching mathematics to undergraduates to make calculus appear no more challenging than any other branch of mathematics. He introduces the subject by examining how functions depend upon their independent variables, and then derives the appropriate mathematical underpinning and definitions. This gives rise to a function's derivative and its antiderivative, or integral. Using the idea of limits, the reader is introduced to derivatives and integrals of many common functions.

Other chapters address higher-order derivatives, partial derivatives, Jacobians, vector-based functions, single, double and triple integrals, with numerous worked examples and almost two hundred colour illustrations. This book complements the author's other books on mathematics for computer graphics and assumes that the reader is familiar with everyday algebra, trigonometry, vectors and determinants. After studying this book, the reader should understand calculus and its application within the world of computer graphics, games and animation.

2. Record Nr.

Autore

Titolo

Pubbl/distr/stampa

Titolo uniforme

ISBN

Descrizione fisica

Collana

UNISOBSOBE00081114

hooks, bell

Insegnare il pensiero critico : saggezza pratica / bell hooks ; traduzione di Feminoska ; prefazione di Espérance Hakuzwimana

Milano, : Meltemi, 2023

Teaching critical thinking

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Culture radicali ; 16

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