An Introduction to Computer Graphics and Creative 3-D Environments

Barry G. Blundell

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This book introduces the fundamentals of 2-D and 3-D computer graphics. Additionally, a range of emerging, creative 3-D display technologies are described, including stereoscopic systems, immersive virtual reality, volumetric, varifocal, and others.

Interaction is a vital aspect of modern computer graphics, and issues concerning interaction (including haptic feedback) are discussed. Included with the book are anaglyph, stereoscopic, and Pulfrich viewing glasses. Topics covered include: - essential mathematics, - vital 2-D and 3-D graphics techniques, - key features of the graphics, - pipeline, - display and interaction techniques, - important historical milestones.

Designed to be a core teaching text at the undergraduate level, accessible to students with wide-ranging backgrounds, only an elementary grounding in mathematics is assumed as key maths is provided. Regular 'Over to You' activities are included, and each chapter concludes with review and discussion questions.

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