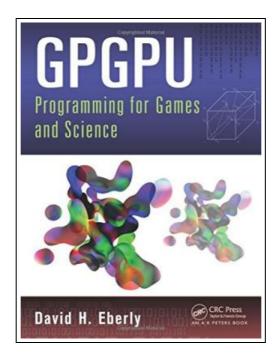
GPGPU Programming for Games and Science (Hardback)



Filesize: 5.44 MB

Reviews

This is actually the best ebook we have read till now. Indeed, it can be enjoy, nevertheless an interesting and amazing literature. You will not feel monotony at whenever you want of the time (that's what catalogs are for regarding should you question me). (Jamar Stracke)

GPGPU PROGRAMMING FOR GAMES AND SCIENCE (HARDBACK)



Taylor & Francis Inc, United States, 2014. Hardback. Condition: New. Language: English. Brand new Book. An In-Depth, Practical Guide to GPGPU Programming Using Direct3D 11GPGPU Programming for Games and Science demonstrates how to achieve the following requirements to tackle practical problems in computer science and software engineering:RobustnessAccuracySpeedQuality source code that is easily maintained, reusable, and readableThe book primarily addresses programming on a graphics processing unit (GPU) while covering some material also relevant to programming on a central processing unit (CPU). It discusses many concepts of general purpose GPU (GPGPU) programming and presents practical examples in game programming and scientific programming. The author first describes numerical issues that arise when computing with floating-point arithmetic, including making trade-offs among robustness, accuracy, and speed. He then shows how single instruction multiple data (SIMD) extensions work on CPUs since GPUs also use SIMD. The core of the book focuses on the GPU from the perspective of Direct3D 11 (D3D11) and the High Level Shading Language (HLSL). This chapter covers drawing 3D objects; vertex, geometry, pixel, and compute shaders; input and output resources for shaders; copying data between CPU and GPU; configuring two or more GPUs to act as one; and IEEE floating-point support on a GPU. The book goes on to explore practical matters of programming a GPU, including code sharing among applications and performing basic tasks on the GPU. Focusing on mathematics, it next discusses vector and matrix algebra, rotations and quaternions, and coordinate systems. The final chapter gives several sample GPGPU applications on relatively advanced topics. Web ResourceAvailable on a supporting website, the author's fully featured Geometric Tools Engine for computing and graphics saves you from having to write a large amount of infrastructure code necessary for even the simplest of applications involving shader programming. The engine



Other Kindle Books



Hacks for Minecrafters: Combat Edition: The Unofficial Guide to Tips and Tricks That Other Guides Won't Teach You (Hardback)

Skyhorse Publishing, United States, 2014. Hardback. Condition: New. Language: English. Brand new Book. From the author of Hacks for Minecrafters and Hacks for Minecrafters: Master Builder comes the most encompassing guide ever to combat in...

Download ePub

»



Scientific and Applied Pharmacognosy, Intended for the Use of Students in Pharmacy, as a Hand Book for Pharmacists, and as a Reference Book for Food and Drug Analysts and Pharmacologists (Hardback)

Franklin Classics, United States, 2018. Hardback. Condition: New. Language: English. Brand new Book. This work has been selected by scholars as being culturally important and is part of the knowledge base of civilization as we...

Download ePub

>>



Life's Healing Choices: Freedom from Your Hurts, Hang-ups, and Habits (Hardback)

SIMON & SCHUSTER, United States, 2007. Hardback. Condition: New. Language: English. Brand new Book. LIFE HAPPENS. Happiness and Healing are yours for the choosing. We've all been hurt by other people, we've hurt ourselves, and...

Download ePub

»



Ninth-grade English. On - supporting the People's Education Press textbook new goals - new materials. graphic

paperback. Condition: New. Ship out in 2 business day, And Fast shipping, Free Tracking number will be provided after the shipment.Pages Number: 236 Publisher: Liaoning Education Press Pub. Date :2010-4-1. Global authority psychologists. physicists. biologists...

Download ePub

»



HBR Guide to Getting the Right Work Done

Ingram Publisher Services Feb 2013, 2013. Taschenbuch. Condition: Neu. Neuware - IS YOUR WORKLOAD SLOWING YOU-AND YOUR CAREER-DOWN Your inbox is overflowing. You're paralyzed because you have too much to do but don't know where...

Download ePub

»



Sociology of Diagnosis (Hardback)

Emerald Publishing Limited, United Kingdom, 2011. Hardback. Condition: New. Language: English. Brand new Book. Diagnosis is central to medical practice, medical knowledge and research, medicalization dynamics, and health and illness experience. Embedded in social relations,

Download Book

»



FRCR Physics MCQs in Clinical Radiology (Hardback)

Springer Verlag, Singapore, Singapore, 2018. Hardback. Condition: New. 1st ed. 2019. Language: English. Brand new Book. This book offers a collection of specimen multiple choice questions (MCQs) for the first FRCR examination in clinical radiology

Download Book

»



Asset Pricing Theory (Hardback)

Princeton University Press, United States, 2009. Hardback. Condition: New. Language: English. Brand new Book. Asset Pricing Theory is an advanced textbook for doctoral students and researchers that offers a modern introduction to the theoretical and

Download Book

"



An Undergraduate Introduction to Financial Mathematics (3rd edition)

World Scientific Publishing Co Pte Ltd. Hardback. Condition: new. BRAND NEW, An Undergraduate Introduction to Financial Mathematics (3rd edition), J. Robert Buchanan, This textbook provides an introduction to financial mathematics and financial engineering for undergraduate

Download Book

»



Thinking and Learning About Mathematics in the Early Years (Hardback)

Taylor & Francis Ltd, United Kingdom, 2008. Hardback. Condition: New. Language: English. Brand new Book. How can early years practitioners help young children to become not only numerate but aspiring mathematicians who love numbers, shapes Download Book

»