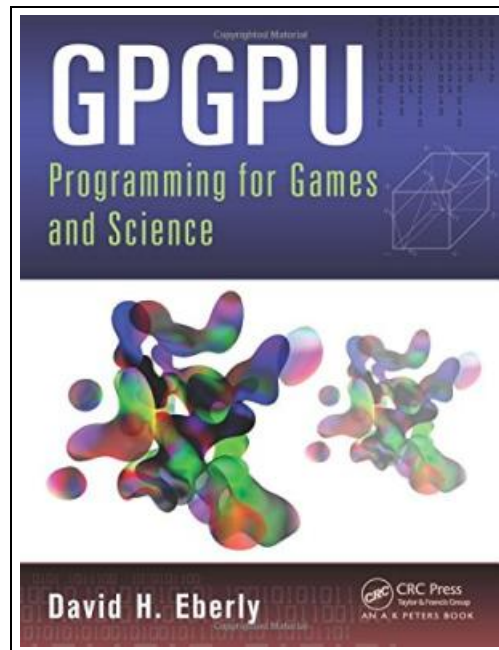


## GPGPU Programming for Games and Science (Hardback)



Filesize: 7.3 MB

### ***Reviews***

*A really great pdf with lucid and perfect information. It is rally fascinating throgh reading through time. I am effortlessly can get a pleasure of reading a published book.*

*(Reyes Lind)*

**GPGPU PROGRAMMING FOR GAMES AND SCIENCE (HARDBACK)****DOWNLOAD**

Taylor & Francis Inc, United States, 2014. Hardback. Condition: New. Language: English. Brand new Book. An In-Depth, Practical Guide to GPGPU Programming Using Direct3D 11 GPGPU Programming for Games and Science demonstrates how to achieve the following requirements to tackle practical problems in computer science and software engineering: Robustness Accuracy Speed Quality source code that is easily maintained, reusable, and readable The 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 Resource Available 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 provides robust and accurate source code with SIMD when...

[Read GPGPU Programming for Games and Science \(Hardback\) Online](#)[Download PDF GPGPU Programming for Games and Science \(Hardback\)](#)

## Related PDFs

**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...

[Read eBook](#)

»

**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...

[Read eBook](#)

»

**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...

[Read eBook](#)

»

**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...

[Read eBook](#)

»

**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...

[Read eBook](#)

»

**Academic Writing and Grammar for Students (Hardback)**

Sage Publications Ltd, United Kingdom, 2015. Hardback. Condition: New. 2nd Revised edition. Language: English. Brand new Book. Available as an E-Inspection Copy! Go here to orderGrappling with grammar? Struggling with punctuation? Whether you're writing an

[Save](#) [Document](#)

»

**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

[Save](#) [Document](#)

»

**Writing & Selling Short Stories & Personal Essays: The Essential Guide to Getting Your Work Published (Paperback)**

F&W Publications Inc, United States, 2017. Paperback. Condition: New. Language: English. Brand new Book. Write It Short, Sell It Now Short stories and personal essays have never been hotter--or more crucial for a successful writing

[Save](#) [Document](#)

»

**Unlock: Unlock Level 4 Listening and Speaking Skills Teacher's Book with DVD (Mixed media product)**

CAMBRIDGE UNIVERSITY PRESS, United Kingdom, 2015. Mixed media product. Condition: New. Teachers Guide. Language: English. Brand new Book. Unlock is a five-level academic skills course that combines carefully scaffolded exercises, a comprehensive approach to critical

[Save](#) [Document](#)

»

**SAS and Elite Forces Guide Prisoner of War Escape & Evasion: How To Survive Behind Enemy Lines From The World's Elite Military Units (Paperback)**

ROWMAN & LITTLEFIELD, United States, 2012. Paperback. Condition: New. Language: English. Brand new Book. The POW How To Escape Handbook covers everything you need to know about making a successful return to friendly territory. Beginning

[Save](#) [Document](#)

»