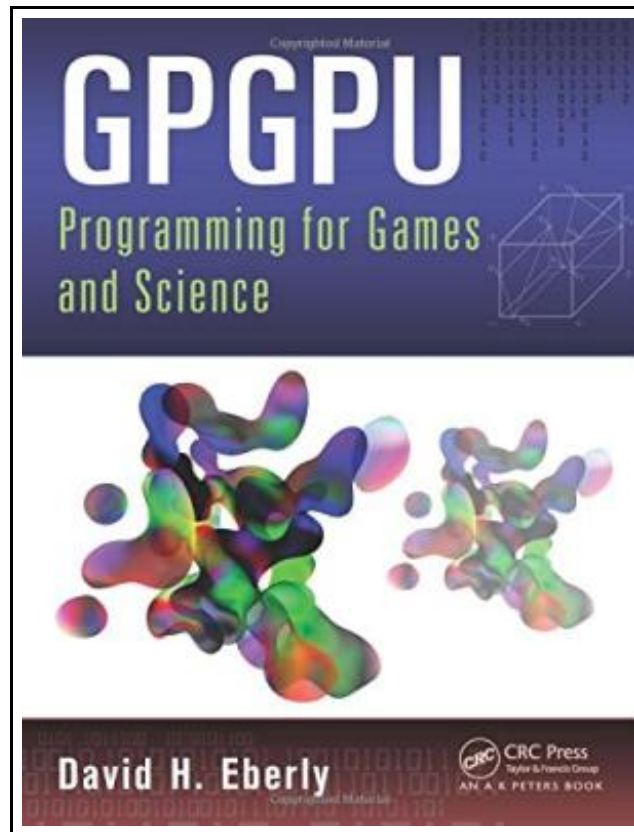


GPGPU Programming for Games and Science



Filesize: 3.13 MB

Reviews

Undoubtedly, this is the greatest job by any author. It is actually filled with wisdom and knowledge I am quickly could get a pleasure of reading a written book.
(Kade Ankunding)

GPGPU PROGRAMMING FOR GAMES AND SCIENCE

DOWNLOAD



To read **GPGPU Programming for Games and Science** PDF, you should follow the button below and save the file or gain access to other information which are related to GPGPU PROGRAMMING FOR GAMES AND SCIENCE ebook.

Taylor & Francis Inc. Hardback. Book Condition: new. BRAND NEW, GPGPU Programming for Games and Science, David H. Eberly, 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...



[Read GPGPU Programming for Games and Science Online](#)



[Download PDF GPGPU Programming for Games and Science](#)

You May Also Like



[PDF] The Official eBay Guide: To Buying, Selling and Collecting Just About Everything

Click the web link under to download and read "The Official eBay Guide: To Buying, Selling and Collecting Just About Everything" document.

[Save PDF »](#)



[PDF] Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)

Click the web link under to download and read "Environments for Outdoor Play: A Practical Guide to Making Space for Children (New edition)" document.

[Save PDF »](#)



[PDF] Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age

Click the web link under to download and read "Unplug Your Kids: A Parent's Guide to Raising Happy, Active and Well-Adjusted Children in the Digital Age" document.

[Save PDF »](#)



[PDF] The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)

Click the web link under to download and read "The Well-Trained Mind: A Guide to Classical Education at Home (Hardback)" document.

[Save PDF »](#)



[PDF] Scala in Depth

Click the web link under to download and read "Scala in Depth" document.

[Save PDF »](#)



[PDF] It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em

Click the web link under to download and read "It's Just a Date: How to Get 'em, How to Read 'em, and How to Rock 'em" document.

[Save PDF »](#)