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CUDA for Engineers gives you direct, hands-on engagement with personal, high-performance parallel computing, enabling you to do computations on a gaming-level PC that would have required a supercomputer just a few years ago.

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Overview. CUDA for Engineers gives you direct, hands-on engagement with personal, high-performance parallel computing, enabling you to do computations on a gaming-level PC that would have required a supercomputer just a few years ago. The authors introduce the essentials of CUDA C programming clearly and concisely, quickly guiding you from running sample programs to building your own code.

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CUDA is a hardware/software platform for parallel computing created and supported by NVIDIA Corporation to promote access to high-performance parallel computing. The hardware aspect of CUDA involves graphics cards equipped with one or more CUDA-enabled graphics processing units (GPUs).

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CUDA provides `gridDim.x`, which contains the number of blocks in the grid, and `blockIdx.x`, which contains the index of the current thread block in the grid. Figure 1 illustrates the the approach to indexing into an array (one-dimensional) in CUDA using `blockDim.x`, `gridDim.x`, and `threadIdx.x`.

An Even Easier Introduction to CUDA | NVIDIA Developer Blog

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5.0 out of 5 stars Excellent introduction to High-Performance Parallel Computing. Reviewed in the United States on August 7, 2016. This is with no doubt a great book for anyone who intends to learn and use CUDA. The authors introduce the essentials of CUDA C programming clearly and concisely.

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CUDA for Engineers by Storti Duane (ebook)

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CUDA for Engineers

PRAISE FOR CUDA FOR ENGINEERS "First there was FORTRAN, circa 1960, which enabled us to program main-frames. Then there was BASIC, circa 1980, which enabled us to program the first microcomputers. And now there is CUDA, which enables us to program super-microcomputers.

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