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The CUDA platform is a software layer that gives direct access to the GPU's virtual instruction set and parallel computational elements, for the execution of compute kernels. The CUDA platform is designed to work with programming languages such as C, C++, and Fortran.

## **CUDA by Example: An Introduction to General-Purpose GPU ...**

Following is a list of CUDA books that provide a deeper understanding of core CUDA concepts:  
CUDA by Example: An Introduction to General-Purpose GPU Programming  
CUDA for Engineers: An Introduction to High-Performance Parallel Computing  
Programming Massively Parallel Processors: A Hands-on Approach  
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## **CUDA for Engineers. An Introduction to High-Performance ...**

In this chapter from CUDA for Engineers: An Introduction to High-Performance Parallel Computing , you'll learn about the essentials of defining and launching kernels on 2D computational grids. The authors explain sample code, the flashlight app that takes advantage of CUDA/OpenGL interop to implement real-time graphical display and interaction ...

## **9780134177410: CUDA for Engineers: An Introduction to High ...**

CUDA for Engineers An Introduction to High-Performance Parallel Computing by Duane Storti 9780134177410 (Paperback, 2015). Using CUDA, you can to liberate the power of NVIDIA graphics cards for a wide spectrum of non-graphics applications.CUDA for Engineers is the first guide specifically focused on using CUDA to write high-performance engineering and scientific applications.

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None whatsoever! GPU programming simply offers you an opportunity to build—and to build mightily— on your existing programming skills. To program NVIDIA GPUs to perform general-purpose computing tasks, you will want to know what CUDA is. NVIDIA GPUs are built on what's known as the CUDA Architecture .

## **Storti & Yurtoglu, CUDA for Engineers: An Introduction to ...**

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## **CUDA for Engineers**

Introduction. Welcome to CUDA for Engineers. The goal of this book is to give you direct, hands-on engagement with personal high-performance computing. If you follow along on our foray into the CUDA world, you will gain the benefit of massive parallelism and be able to perform computations on a basic gaming computer that until very recently required a supercomputer.

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