



Learning Physics Modeling with PhysX

Krishna Kumar

Download now

[Click here](#) if your download doesn't start automatically

Learning Physics Modeling with PhysX

Krishna Kumar

Learning Physics Modeling with PhysX Krishna Kumar

As a game developer, you'll know the power of PhysX to add simulation-level realism to games, and this book shows you exactly how best to achieve it with a hands-on, examples-led approach. Sophisticated stuff.

Overview

- Learn everything you need to know about PhysX programming from scratch
- Master the most advanced features of the PhysX Physics Engine
- Code examples are included in each chapter to help you learn quickly and efficiently

In Detail

In this day and age, physics engines play a very critical role in the success of a sophisticated game. PhysX is a state-of-the-art cross-platform physics engine widely used by top game studios and developers. It contains all the physics-related components you will need and exploits the parallel-processing capability of modern GPUs as well as multi-core CPUs to make a game as physically-realistic as possible. This book will help you to program and simulate games by using PhysX 3.

Learning Physics Modeling with PhysX helps you to master physics simulation using the PhysX Physics Engine from scratch. This is useful not only for game developers, but also for developers making virtual walkthroughs or training and other simulation applications. It will cover all the essential features of PhysX 3 with easy-to-understand code snippets and examples to help you learn quickly and efficiently.

This book will start off by introducing you to the basic concepts of physics engines and will give you a glimpse of PhysX implementation. We then gradually cover more sophisticated topics with sample source code so that you can see what you have learned in action. We will cover the history and features of the PhysX SDK as well as how to configure it with the C++ compiler. After touching upon essential topics like rigid body dynamics and collision detection, we will gradually move on to more advanced topics like joints, scene queries, character controllers, particles, and cloth simulation. By the end of this book, you will have learned everything you need to know about the PhysX 3 Physics Engine, and you will be able to use it to program your very own physics simulation quickly and efficiently.

What you will learn from this book

- Learn about the history and features of the PhysX SDK as well as how to configure it with the C++ compiler
- Create, update, and destroy scenes and actors in PhysX
- Modify the properties of rigid body dynamics like mass, velocity, force, and so on
- Understand joints and their types including fixed, revolute, spherical, distance, and D6
- Understand the types of scene queries like raycast, sweep, and overlap as well as the different modes of operation
- Master the character controller and cloth simulations
- Create particle systems and update and release particles
- Learn how to use the PhysX Visual Debugger and its interface


Approach

Written as a practical, step-by-step tutorial, this book is full of engaging examples to help you learn in a practical context.

Who this book is written for

This book is for game developers or anyone who wants to learn how to fully utilize the PhysX Physics Engine quickly and efficiently. You don't have to be a die-hard programmer to get started with this book. Basic knowledge of C++, 3D mathematics, and OpenGL is all you need.

 [Download Learning Physics Modeling with PhysX ...pdf](#)

 [Read Online Learning Physics Modeling with PhysX ...pdf](#)

Download and Read Free Online Learning Physics Modeling with PhysX Krishna Kumar

From reader reviews:

Johanna Garrett:

In this 21st centuries, people become competitive in every way. By being competitive at this point, people have do something to make these individuals survives, being in the middle of the particular crowded place and notice by surrounding. One thing that oftentimes many people have underestimated the item for a while is reading. Yep, by reading a publication your ability to survive enhance then having chance to stand than other is high. For you who want to start reading some sort of book, we give you this specific Learning Physics Modeling with PhysX book as beginning and daily reading publication. Why, because this book is more than just a book.

Adam Cohn:

The experience that you get from Learning Physics Modeling with PhysX is a more deep you digging the information that hide into the words the more you get interested in reading it. It does not mean that this book is hard to be aware of but Learning Physics Modeling with PhysX giving you enjoyment feeling of reading. The copy writer conveys their point in particular way that can be understood simply by anyone who read it because the author of this publication is well-known enough. This kind of book also makes your current vocabulary increase well. Making it easy to understand then can go with you, both in printed or e-book style are available. We propose you for having this kind of Learning Physics Modeling with PhysX instantly.

Harold Scott:

Reading a book can be one of a lot of action that everyone in the world adores. Do you like reading book therefore. There are a lot of reasons why people enjoy it. First reading a guide will give you a lot of new details. When you read a reserve you will get new information since book is one of several ways to share the information or perhaps their idea. Second, studying a book will make an individual more imaginative. When you examining a book especially fiction book the author will bring one to imagine the story how the character types do it anything. Third, you could share your knowledge to some others. When you read this Learning Physics Modeling with PhysX, you are able to tells your family, friends along with soon about yours book. Your knowledge can inspire others, make them reading a guide.

Robert Olsen:

Many people spending their moment by playing outside together with friends, fun activity with family or just watching TV the entire day. You can have new activity to enjoy your whole day by reading through a book. Ugh, think reading a book really can hard because you have to accept the book everywhere? It all right you can have the e-book, getting everywhere you want in your Smart phone. Like Learning Physics Modeling with PhysX which is obtaining the e-book version. So , why not try out this book? Let's view.

**Download and Read Online Learning Physics Modeling with PhysX
Krishna Kumar #6V87ETIMPWO**

Read Learning Physics Modeling with PhysX by Krishna Kumar for online ebook

Learning Physics Modeling with PhysX by Krishna Kumar Free PDF d0wnl0ad, audio books, books to read, good books to read, cheap books, good books, online books, books online, book reviews epub, read books online, books to read online, online library, greatbooks to read, PDF best books to read, top books to read Learning Physics Modeling with PhysX by Krishna Kumar books to read online.

Online Learning Physics Modeling with PhysX by Krishna Kumar ebook PDF download

Learning Physics Modeling with PhysX by Krishna Kumar Doc

Learning Physics Modeling with PhysX by Krishna Kumar Mobipocket

Learning Physics Modeling with PhysX by Krishna Kumar EPub