



# Learning Unity Physics

By K. Aava Rani

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**Learning Unity Physics** By K. Aava Rani

**Learn to implement Physics in interactive development using the powerful components of Unity3D**

## About This Book

- Learn how to utilize the robust features of Unity3D to develop physics-based interactive applications and games
- Optimize your application performance while using physics in Unity3D
- An easy-to-follow guide accompanied by examples, which will help developers to learn and apply physics to games

## Who This Book Is For

If you are familiar with the fundamentals of Physics and have basic experience of unity game development, but have no knowledge of using the two together, then this book is for you.

## What You Will Learn

- Discover the use of Physics in interactive development
- Explore the built-in Physics components of Unity3D
- Get to grips with the uses and types of different colliders in Unity3D
- Define the collision shape of objects in scenes, explaining the Collision Matrix
- Learn in detail the uses and types of different Rigidbodies in Unity3D
- Get to know more about Joints and their types with examples
- Make use of Unity3D Physics components for animation

## In Detail

Unity is a powerful game development engine that provides rich functionalities to create 2D and 3D games. Developers get the opportunity to build cross-platform mobile and desktop games from scratch. With the increasing interest in using Physics in interactive development, Unity3D offers a cutting-edge platform for simulation, game development, and application development through a user-friendly interface. You will learn the fundamentals of Physics in game

development. The book starts by providing a quick introduction on how we can use Physics for interactive development. Furthermore, it provides a detailed description on the uses of Physics material in Unity3D and how we can use different colliders for interaction. The book also focuses on Rigidbodies and Joints, its types and properties. There is also a dedicated section on how we can optimize applications and games if we use Physics in Unity3D. By the end of this book, you will be capable of successfully developing Physics-based simulations, games, and applications.

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## Learning Unity Physics By K. Aava Rani Bibliography

- Sales Rank: #1725015 in Books
- Published on: 2014-10-29
- Released on: 2014-10-29
- Original language: English
- Number of items: 1
- Dimensions: 9.25" h x .29" w x 7.50" l, .51 pounds
- Binding: Paperback
- 140 pages

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## **Editorial Review**

About the Author

### **K. Aava Rani**

K. Aava Rani is a cofounder of CulpzLab Pvt Ltd—a software company with 10 years of experience in game technologies. She is a successful blogger and technologist. She switched her focus to game development in 2004. Since then, she has produced a number of game titles and has provided art and programming solutions to Unity developers across the globe. She is based in New Delhi, India. Aava Rani has been the recipient of several prestigious awards, including Game Technology Expert (2012) from Adobe and recognition from SmartFoxServer for her articles. She has experience in different technologies. Aava has also reviewed the book, *Creating E-Learning Games with Unity*, David Horachek, Packt Publishing.

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