



## Game Physics Engine Development (The Morgan Kaufmann Series in Interactive 3D Technology)

By Ian Millington

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Simulating physics helps cutting-edge games distinguish themselves by making virtual objects behave as we expect them to in the real world. Physics engines are the software programs that run these simulations. Building an engine is difficult, however. There are a large number of new developers (and hobbyists) coming into this market who need help through this complex process. Current introductory books are inadequate; they don't bring enough real-world programming experience to the task. There is a need for an introductory book on game physics with solid coding guidance but which limits the math content. Ian Millington brings his extensive professional programming experience to this problem. He has developed games since 1987, has studied AI and mathematics at the PhD level, and founded Mindlathe Ltd., a company that designed and built commercial physics engines. Physics Engine Development carefully describes each step in the creation of a robust, usable physics engine. It introduces the mathematical concepts in a clear and simple manner, keeping to high school level topics and building a physics code library as it goes. Each new concept is explained in diagrams and code to make sure that even the most novice of game programmers understands. The companion CD-ROM includes the source code for a complete physics engine of commercial quality. This book will serve as a introduction to more mathematically advanced books on game physics, such as Dave Eberly's Game Physics.

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### **Editorial Review**

#### About the Author

Ian Millington is a partner of IPR Ventures, a consulting company developing next-generation AI technologies for entertainment, modeling, and simulation. Previously he founded Mindlathe Ltd, the largest specialist AI middleware company in computer games, working with on a huge range of game genres and technologies. He has a long background in AI, including PhD research in complexity theory and natural computing. He has published academic and professional papers and articles on topics ranging from paleontology to hypertext.

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