



Foundations of Physically Based Modeling and Animation

Donald H. House, John C. Keyser

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Physics forms the basis for many of the motions and behaviors seen in both the real world and in the virtual worlds of animated films, visual effects, and computer games. By describing the underlying physical principles and then creating simulations based on these principles, these computer-generated worlds are brought to life. **Physically Based Modeling and Animation** goes behind the scenes of computer animation and details the mathematical and algorithmic foundations that are used to determine the behavior underlying the movement of virtual objects and materials. Dr. Donald House and Dr. John Keyser offer an approachable, hands-on view of the equations and programming that form the foundations of this field. They guide readers from the beginnings of modeling and simulation to more advanced techniques, enabling them to master what they need to know in order to understand and create their own animations

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