



# Physically Based Rendering, Third Edition: From Theory To Implementation

*Matt Pharr, Greg Humphreys, Wenzel Jakob*

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Physically Based Rendering: From Theory To Implementation, Third Edition describes both the mathematical theory behind a modern photorealistic rendering system and its practical implementation. Through a method known as 'literate programming', the authors combine human-readable documentation and source code into a single reference that is specifically designed to aid comprehension. The result is a stunning achievement in graphics education.

Through the ideas and software in this book, users will learn to design and employ a fully-featured rendering system for creating stunning imagery. This completely updated and revised edition includes new coverage on ray-tracing hair and curves primitives, numerical precision issues with ray tracing, LBVHs, realistic camera models, the measurement equation, and much more. It is a must-have, full color resource on physically-based rendering.

- Presents up-to-date revisions of the seminal reference on rendering, including new sections on bidirectional path tracing, ray-tracing hair and curves, and micro faceted reflection models
- Provides the source code for complete rendering systems allowing readers to get up and running fast
- Includes a unique indexing feature, literate programming, that lists the locations of each function, variable, and method on the page where they are first described
- Serves as an essential resource on physically-based rendering

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