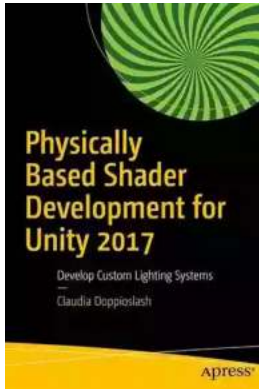


Unleash Your Creativity: Develop Custom Lighting Systems that Shine



Lighting plays a crucial role in enhancing the ambiance, highlighting architectural features, and creating visually stunning spaces. Custom lighting systems have gained immense popularity in recent years as they offer limitless creative possibilities and add a unique touch to any environment.

Whether you're an interior designer, architect, or simply a homeowner looking to elevate your space, the ability to develop custom lighting systems can be a game-changer. Not only can you tailor the lighting to suit your specific needs and preferences, but you'll also enjoy the satisfaction of bringing your vision to life.



Physically Based Shader Development for Unity 2017: Develop Custom Lighting Systems

by Claudia Doppioslash(1st ed. Edition, Kindle Edition)

★★★★☆ 4.5 out of 5

Language : English

File size : 3950 KB

Text-to-Speech : Enabled

Enhanced typesetting: Enabled

Print length : 262 pages

Screen Reader : Supported



The Power of Innovation in Lighting

Innovation has transformed the lighting industry, enabling the creation of advanced custom lighting systems that were once unimaginable. Gone are the days when the options were limited to conventional fixtures and designs. Today, the possibilities are virtually endless.

From programmable LED lights that change colors to motion-sensor activated systems, there's a whole new level of interactivity and flexibility available. Integration with smart home technology allows you to control lighting scenes using voice commands or through a mobile app, providing unrivaled convenience and customization.

Moreover, innovative lighting solutions are not limited to indoor spaces. Outdoor lighting systems have also evolved to enhance safety, security, and aesthetic appeal. From pathway illumination to decorative fixtures that highlight landscaping elements, you can create stunning outdoor environments that leave a lasting impression.

Designing Custom Lighting Systems

Creating bespoke lighting systems requires careful planning, collaboration, and a deep understanding of the desired outcome. Regardless of the project, the process generally involves the following key steps:

1. Conceptualization and Planning

The first step in developing a custom lighting system is to clearly define the objectives and scope of the project. Whether it's designing a co-working space, a luxurious hotel lobby, or a residential living area, understanding the vision, requirements, and budget is crucial.

Collaborating with clients, architects, and interior designers allows lighting experts to gain insights into the project's theme and overall design. This phase also involves evaluating the existing electrical infrastructure and assessing any limitations that may affect the implementation process.

2. Custom Fixture Selection and Design

The key to creating a standout lighting system lies in selecting and designing fixtures that align with the vision and functionality of the space. Custom fixtures can range from chandeliers and pendant lights to wall sconces and recessed lighting.

During this phase, lighting experts work closely with their clients to understand specific lighting requirements such as brightness, color temperature, and control options. Compatibility with dimming systems, as well as energy efficiency considerations, are also taken into account during fixture selection and design.

3. Integration of Cutting-edge Technology

Incorporating the latest technological advancements in lighting is essential for creating custom systems that truly stand out. From wireless control options to dynamic lighting effects, technology can enhance ambiance and functionality.

Automation systems enable the creation of lighting scenes, allowing different lighting configurations to be set and adjusted effortlessly. This technology not only adds convenience but also helps optimize energy consumption by allowing the user to control the intensity and duration of lighting based on specific needs.

4. Installation and Fine-tuning

After selecting the fixtures and integrating the desired technology, the next step is installation. Professional lighting experts ensure meticulous placement and wiring to achieve the desired effects.

Post-installation, careful testing and fine-tuning are carried out to guarantee optimal performance and maximum impact. Adjustments to brightness levels, angle, and color output may be made to align with the original concept developed during the planning phase.

The Benefits of Custom Lighting Systems

Investing in custom lighting systems offers numerous benefits, ranging from aesthetic appeal to increased energy efficiency. Let's explore some key advantages:

1. Personalization and Unique Design

Custom lighting systems allow you to create spaces that reflect your personality and design preferences. From selecting the fixtures to controlling the intensity and color options, every aspect can be tailored to match your vision.

2. Enhanced Ambiance and Mood

Custom lighting plays a pivotal role in setting the right ambiance and mood. Whether it's a vibrant and energetic space or a calming and relaxing environment, the ability to adjust lighting scenes brings endless possibilities.

3. Improved Energy Efficiency

With advanced lighting technology, custom systems can be designed to optimize energy consumption. By utilizing dimming options, motion sensors, and programmable schedules, unnecessary energy wastage can be significantly reduced.

4. Increased Property Value

Investing in custom lighting systems can enhance the overall value and appeal of your property. Grand lighting fixtures and smart lighting controls can make a lasting impression on potential buyers or tenants.

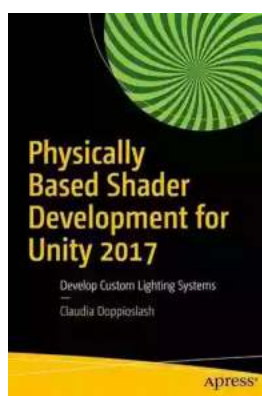
5. Flexibility and Adaptability

Custom lighting systems offer the flexibility to adapt to different scenarios and activities. From hosting events to creating a cozy reading nook, the ability to adjust lighting settings allows spaces to transform effortlessly.

Unleash Your Creativity

Developing custom lighting systems is an art that merges creativity with technical expertise. It enables you to go beyond the limitations of standard lighting and create truly immersive environments that leave a lasting impression.

Whether it's residential, commercial, or outdoor spaces, the possibilities are endless. So, why settle for ordinary lighting when you can have a unique masterpiece that illuminates your space like no other? Embrace innovation, bring your vision to life, and let your creativity shine.



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Benefit from the latest rendering tech developments, currently covered only in papers and talks from Siggraph, in a way any developer or technical artist using Unity can take advantage of. This book starts by introducing how shader programming works in general, the common principles of different platforms (OpenGL, Vulkan, and DirectX), and the shading languages Unity uses: Cg, GLSL, and ShaderLab.

Physically Based Shader Development for Unity 2017 discusses artistic choices, presenting various techniques (such as translucency and subsurface scattering) and BRDFs (Oren-Nayar, Cook-Torrance, and Ashikhmin-Shirley), and what they

can be used for. Finally you'll cover the importance of optimizing your code by developing approximations, which achieve similar end results, but are computationally cheaper.

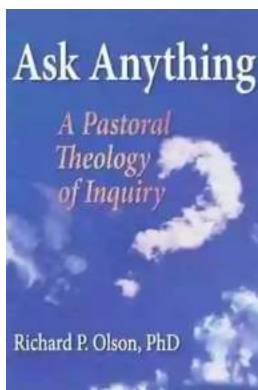
By the end of your journey you'll be able to develop the look of your game or Unity-rendered animated short so that it looks both unique and impressively realistic, thanks to your own custom lighting system.

What You Will Learn

- Master shader programming
- Gain all you need to know about physically based shading
- Take almost full control of the shader subsystem
- Discover what you can achieve with that control
- Implement a custom physically based lighting system and examine the logic behind every choice

Who This Book Is For

Most game developers (both indie and AA) that use Unity and technical artists who are responsible for the final look of a game.



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