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## LED/OLED Design Using Mixed-Level Simulation

There has been extensive research to improve the design of light-emitting diodes (LEDs) and organic LEDs (OLEDs) to enhance light extraction efficiency, improve beam shaping, and allow color tuning. Due to the range and scales of geometric structures used in LEDs and OLEDs, a variety of numerical techniques are required to efficiently and accurately analyze and optimize their performance. In this paper, we present a mixed-level simulation approach using Synopsys' RSoft™ and LightTools® software products, which unifies the use of electromagnetic (EM) wave-level and ray-level tools for optimal LED/OLED design.

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