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Fabrication of Semiconductor Devices

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A light-emitting diode (LED) is a semiconductor light source that emits light when current flows through it. Electrons in the semiconductor recombine with electron holes, releasing energy in the form of photons. This effect is called electroluminescence. The color of the light (corresponding to the energy of the photons) is determined by the energy required for electrons to cross the band gap ...

Light-emitting diode - Wikipedia

2 MOSFET DEVICE PHYSICS AND OPERATION Gate Source Drain Semiconductor substrate Insulator Gate junction Substrate contact Conducting channel Figure 1.1 Schematic illustration of a generic field effect transistor. This device can be viewed as a combination of two orthogonal two-terminal devices

MOSFET Device Physics and Operation

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Another similarity between the devices is that the perovskite layers were prepared using solutions, from which the semiconductors crystallized to form the emissive components of the LEDs.

LED technology breaks performance barrier - nature.com

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Si2 Approves IC Design Simulation Standards for Gallium ...

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Journal of Physics D: Applied Physics - IOPscience

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