

Nanotechnology in the Fabrication of Miniaturized Electronic Components

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Abstract. The paper explores the role of nanotechnology in the fabrication of miniaturized electronic components. By focusing on nanoscale materials and processes, the research highlights advancements in component size reduction and performance enhancement. These developments are crucial for the evolution of compact and efficient electronic devices.

Keywords: Nanotechnology, Miniaturization, Nanoscale Materials, Electronics, Fabrication Processes

Introduction

Nanotechnology has become a pivotal force in the miniaturization of electronic components, leading to significant advancements in the electronics industry. This article examines the use of nanoscale materials and fabrication processes to achieve unprecedented reductions in component size while enhancing performance. The study delves into the challenges and opportunities presented by nanotechnology in this domain, offering a comprehensive analysis of current trends and future prospects. These developments are instrumental in the creation of more compact, energy-efficient electronic devices that meet the demands of modern technology.

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References

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