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FOUNDATIONS OF ELECTRONICS AN ILLUSTRATIONS

This elementary book, "Foundations of Electronics : An Illustration", deals with the recurring questions regarding electronics as well as the application in digital circuits. Starting with the concept of Electron, it sequentially discusses chapters like "Basic Circuit Analysis", "Fourier Series", "Semiconductor", "P-N Junction", "Transistor", "Amplifier", "FET", "Modulation", "Oscillator", "LED", "Digital Circuit" and "Fabrication" for making devices through various stages using semiconductor and a compendium of specific tips to make cleansing and clarion. Simple illustrations have been introduced in the main text to show how the theory works in practice from extrinsic semiconductors to digital circuit and from basic fabrication techniques to LEDs with a recalcitrant. An effort has been made in this book to take students away from rote learning and induce some original thinking in their minds. To achieve this objective, the new patterns of presentation in various chapters during the course of study have more to do with current aspects in manufacturing. A chapter wise analysis is attempted in this book to assist the student to comprehend the topics better and bring preparation closer to the experiment. The formulae and applications are simple, elegant, complicated and cumbersome. The mathematical analysis makes it a self sufficient reading material.

(Anil Kumar Singh, Prem Prakash Singh)

Category: Higher Education, Professional Courses, Competitions**ISBN:** 978-93-89579-18-5

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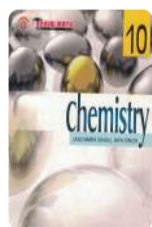
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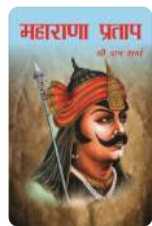
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Abstract

Technology has brought great benefits to human society, making life easier with good health and communication. But, in spite of these benefits, there are still underlying threats to existing life. The world is under the same kind of threat with nanotechnology. But with the help of new methodologies to replace existing applications of green nanotechnology, health and environmental hazards can be tackled in a better way. Green nanotechnology is not merely initiating the next industrial scientific revolution but is also facilitating technological solutions by developing new industrial and chemical methodologies. These new methodologies will develop alternative replacement materials for hazardous processes and constituents, offering better solutions to these problems, thus rightly reflecting the fact that safe nano is green nano.

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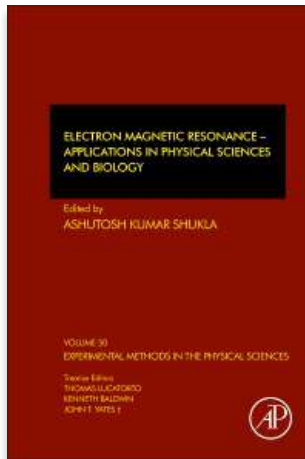
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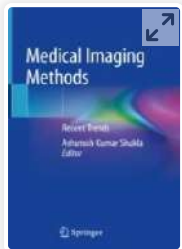
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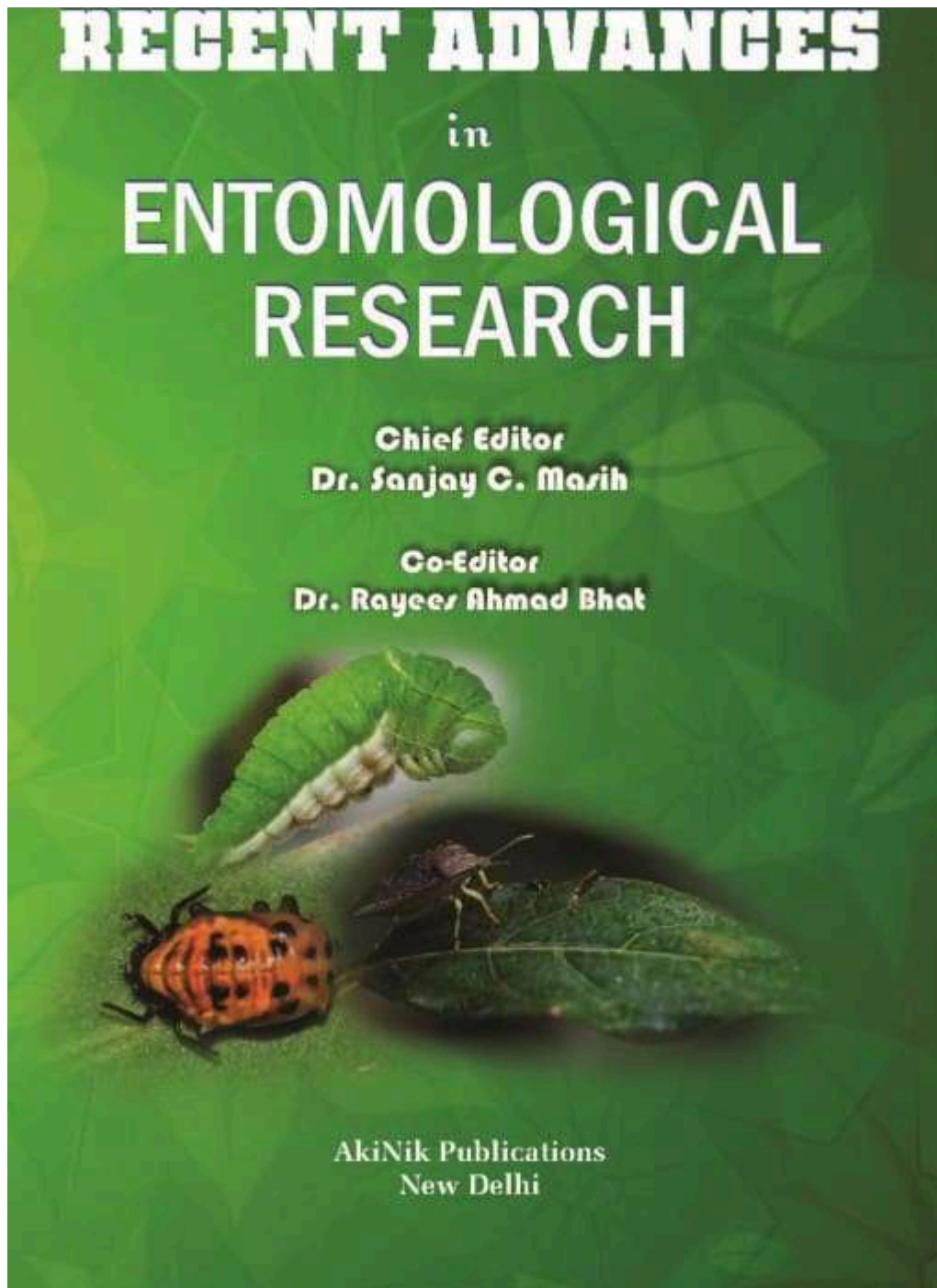
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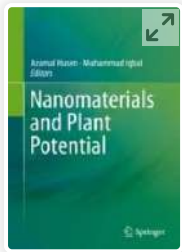
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Abstract

Herbal medicines, plant products, and phytotherapeutics have been widely used all over the world since the ancient time. In phytoformulation studies, researchers have attempted to develop nano-dosage forms, such as liposomes, proliposomes, solid lipid nanoparticles (NPs), nanoemulsion, and protein-based and lipid-based drug delivery systems. In this field, enhancement of solubility and bioavailability, protection from toxicity, enhancement of pharmacological activity, enhancement of stability, improving tissue macrophage distribution, sustained delivery, and