

Graphene A New Paradigm In Condensed Matter And Device Physics



Graphene A New Paradigm In

E. L. Wolf, Professor of Physics, Polytechnic Institute of New York University E. L. Wolf is a Fellow of the American Physical Society. His research in the area of condensed matter physics contributed strongly to understanding of superconductive tunnelling junctions and the superconducting proximity effect.

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Abstract. Graphene: A New Paradigm in Condensed Matter and Device Physics is a complete description of the science and applications of graphene. Graphene, the single layer of graphite, is now recognized as a revolutionary two-dimensional one-atom-thick material of exceedingly high electrical conductivity and tensile strength.

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Graphene: A New Paradigm in Condensed Matter and Device Physics The book is an introduction to the science and possible applications of graphene, the first one-atom-thick crystalline form of matter. The book describes the unusual physics of the material, that it offers linear rather than parabolic energy bands.

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Graphene A New Paradigm in Condensed Matter and Device Physics E. L. Wolf. Comprehensive, covering all aspects of the subject; Unique in addressing the stability of two-dimensional matter, of which graphene is the first example

Graphene - Hardcover - E. L. Wolf - Oxford University Press

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Unique properties of graphene lead to a new paradigm for low-power telecommunications (Nanowerk News) New research by Columbia Engineering demonstrates remarkable optical nonlinear behavior of graphene that may lead to broad applications in optical interconnects and low-power photonic integrated circuits.

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Unique properties of graphene lead to a new paradigm for low-power telecommunications. This work is an exciting example of both -- large-area films of graphene enable the fabrication of novel opto-electronic devices, which in turn allow for the study of scientific phenomena."

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