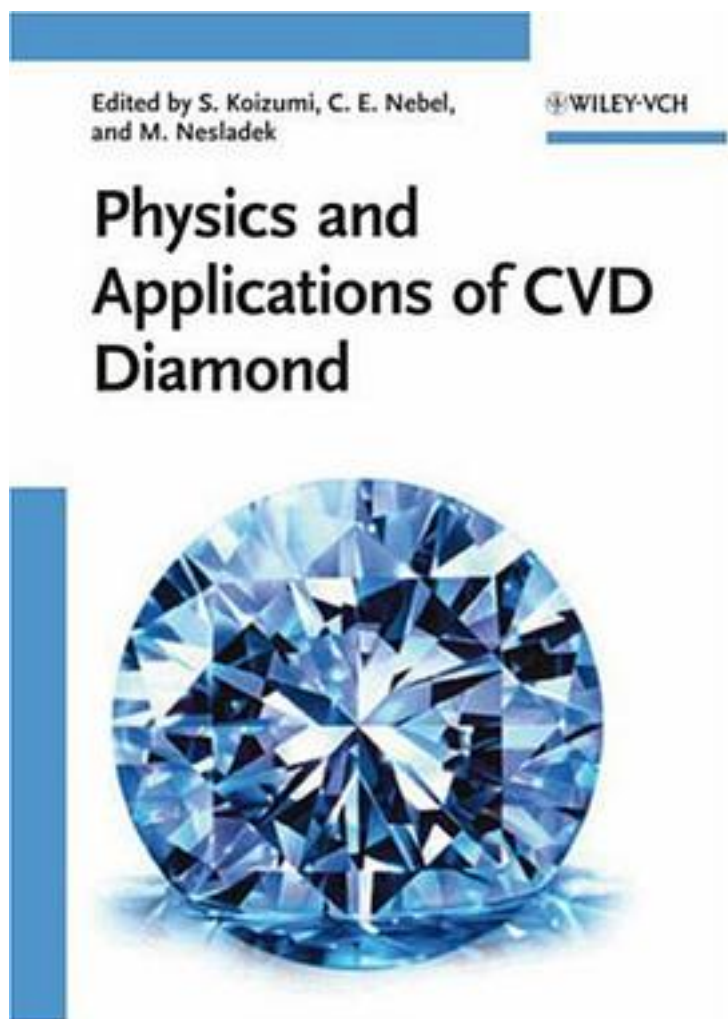


Physics and Applications of CVD Diamond



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Here, leading scientists report on why and how diamond can be optimized for

applications in bioelectronic and electronics. They cover such topics as growth techniques, new and conventional doping mechanisms, superconductivity in diamond, and excitonic properties, while application aspects include quantum electronics at room temperature, biosensors as well as diamond nanocantilevers and SAWs. Written in a review style to make the topic accessible for a wider community of scientists working in interdisciplinary fields with backgrounds in physics, chemistry, biology and engineering, this is essential reading for everyone working in environments that involve conventional electronics, biotechnology, quantum computing, quantum cryptography, superconductivity and light emission from highly excited excitonic systems.

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