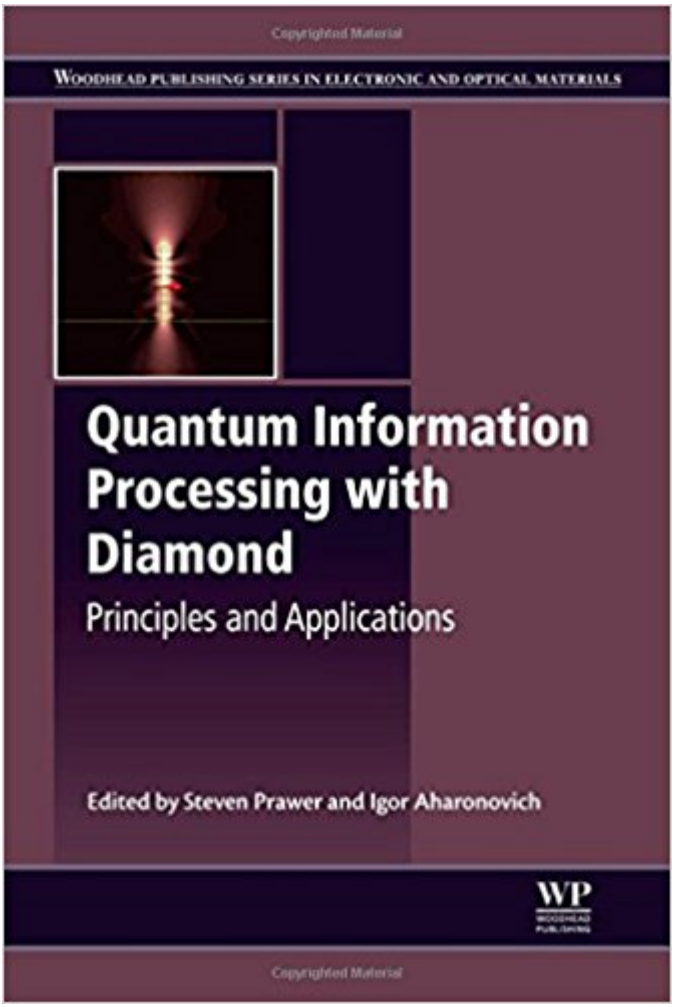
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Quantum Information Processing With Diamond: Principles And Applications (Woodhead Publishing Series In Electronic And Optical Materials)




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Synopsis

Diamond nitrogen vacancy (NV) color centers can transform quantum information science into practical quantum information technology, including fast, safe computing. Quantum Information Processing with Diamond looks at the principles of quantum information science, diamond materials, and their applications. PartÃ Â one provides an introduction to quantum information processing using diamond, as well as its principles and fabrication techniques. PartÃ Â two outlines experimental demonstrations of quantum information processing using diamond, and the emerging applications of diamond for quantum information science. It contains chapters on quantum key distribution, quantum microscopy, the hybridization of quantum systems, and building quantum optical devices. PartÃ Â three outlines promising directions and future trends in diamond technologies for quantum information processing and sensing. Quantum Information Processing with Diamond is a key reference for R&D managers in industrial sectors such as conventional electronics, communication engineering, computer science, biotechnology, quantum optics, quantum mechanics, quantum computing, quantum cryptology, and nanotechnology, as well as academics in physics, chemistry, biology, and engineering.Brings together the topics of diamond and quantum information processingLooks at applications such as quantum computing, neural circuits, and in vivo monitoring of processes at the molecular scale

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