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provides a basis for understanding the characteristics operation and limitations of semiconductor devices this title deals with the electrical properties and characteristics of semiconductor materials and devices it intends to bring together quantum mechanics the quantum theory of solids and semiconductor material physics

neamen s semiconductor physics and devices third edition deals with the electrical properties and characteristics of semiconductor materials and devices the goal of this book is to bring together quantum mechanics the quantum theory of solids semiconductor material physics and semiconductor device physics in a clear and understandable way

quot an introduction to semiconductor devices by donald neamen is designed to provide a fundamental understanding of the characteristics operations and limitations of semiconductor devices in order to meet

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