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engineers in the power semiconductor device community and can also serve as an ideal textbook for teaching courses on power semiconductor devices due to the extensive analytical treatment provided for all device structures.

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## *Fundamentals Of Power Semiconductor Devices*

Jayant Baliga is an internationally recognized expert on power semiconductor devices. He is a Member

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of the National Academy of Engineering and a Fellow of the IEEE. He spent 15 years at the General Electric Research and Development Center, Schenectady, NY, leading their power device effort and was bestowed the highest scientific rank of Coolidge Fellow.

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of power devices was to replace silicon with wide bandgap semiconductors. The basis for this approach was an equation that I derived relating the on-resistance of the drift region in unipolar power devices to the basic properties of the semiconductor material. This equation has since been referred to as Baliga's

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figure of merit (BFOM).

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commonly used by the power electronics industry. Drawing upon decades of industry and teaching experience and using numerous examples and illustrative applications, the author discusses in detail the various device performance attributes that allow practicing engineers to develop energy-efficient products.

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