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Dr. Jayant Baliga's Speech, ECE

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Graduation, Spring 2010 Lifetime
control techniques for power
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Method - ~~The Next Big Step in~~
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~~u0026 Applications~~ **GaN**

Transistors (Gallium Nitride)

Solutions ~~Power Electronics~~

~~MOSFET Power Losses SiC Power~~

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HEMT *GaN transistors in power
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General View **GaN Power**

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devices - Physics of GaN devices

semiconductor device
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N.C. Award for Science: Dr. B.
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Summary and Introduction

*General overview of GaN-based
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**devices Basic Operation Of
Power BJT - Other Power
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**Semiconductor Devices Part II
of III - Transistor \u0026**

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~~Baliga~~

Bantval Jayant Baliga is an Indian electrical engineer best known for his work in power semiconductor devices, and particularly the invention of the insulated gate bipolar transistor. Dr. B. Jayant Baliga wrote: "Power

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Jayant Baliga is an internationally recognized expert on power semiconductor devices. He is a Member of the National Academy of Engineering and a Fellow of the IEEE. He spent 15 years at the General Electric Research and

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Development Center,
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Power semiconductor device
figure of merit for high-frequency

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Applications. Abstract: A figure of merit (the Baliga high-frequency figure of merit) is derived for power semiconductor devices operating in high-frequency circuits. Using this figure of merit, it is predicted that the power losses incurred in the power

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device will increase as the square root of the operating frequency and approximately in proportion to the output power.

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Jayant Baliga is an internationally

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recognized expert on power semiconductor devices. He is a Member 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

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power device effort and was bestowed the highest scientific rank of Coolidge Fellow.

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...

Following the commercialization

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of power MOSFETs in the 1970s, B. Jayant Baliga submitted a patent disclosure at General Electric (GE) in 1977 describing a power semiconductor device with the IGBT mode of operation, including the MOS gating of thyristors, a four-layer VMOS (V-

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groove MOSFET) structure, and the use of MOS-gated structures to control a four-layer semiconductor device.

~~Insulated gate bipolar transistor~~
~~Wikipedia~~

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Semiconductor Devices,
Paperback by Baliga, B. Jayant,
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the physics of operation of power semiconductor devices that are commonly used by the power electronics industry. Analytical models for explaining the ...

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Prof. Baliga is an internationally recognized expert on power semiconductor devices. He is a Member of the National Academy of Engineering and a Fellow of the IEEE. He spent 15 years at the General Electric Research and

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Development Center,
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power device effort and was
bestowed the highest scientific
rank of Coolidge Fellow.

~~Jay Baliga • Electrical and
Computer Engineering~~

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Fundamentals of Power

Semiconductor Devices will be of interest to practicing 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

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Analytical treatment provided for
all device structures.

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Authored by the Founder of the
Power Semiconductor Research

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Center at North Carolina State University (and creator of the IGBT device), Dr. B. Jayant Baliga is one of the highest regarded experts in the field. He thus leads this team who comprehensively review the materials, device physics, design considerations

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and relevant applications
discussed.

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of power semiconductor devices

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that are 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

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attributes that allow practicing engineers to develop energy-efficient products.

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Power Devices: Materials, Physics, Design and Applications provides readers with a single resource on why these devices are superior to existing silicon devices. The book...

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~~Semiconductor Devices by B.
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Dr. Baliga is an internationally renowned scientist, author of 19 books and over 550 publications, and an established educator in the field of power semiconductor devices with 120 U.S. patents to

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his name.

~~Jayant Baliga—IEEE Electron
Devices Society~~

This textbook provides an in-
depth treatment of the physics of
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that are commonly used by the

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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

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The author, B. Jayant Baliga,
invented the IGBT in 1980 while
working for GE. His book will

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Unlock IGBT for a new generation of engineering applications, making it essential reading for a wide audience of electrical engineers and design engineers, as well as an important publication for semiconductor specialists.

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