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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 semiconductor devices are recognized as a key component of all power electronic systems. It is estimated that at least 50 percent of the electricity used in the world is controlled by power devices. With the wide spread use of electronics in the consumer, industrial, medical, and

~~B. Jayant Baliga—Wikipedia~~

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

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Using this figure of merit, it is predicted that the power losses incurred in the power device will increase as the square root of the operating frequency and approximately in proportion to the output power.

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Following the commercialization 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-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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Authored by the Founder of the Power Semiconductor Research 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 and relevant applications discussed.

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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 his name.

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