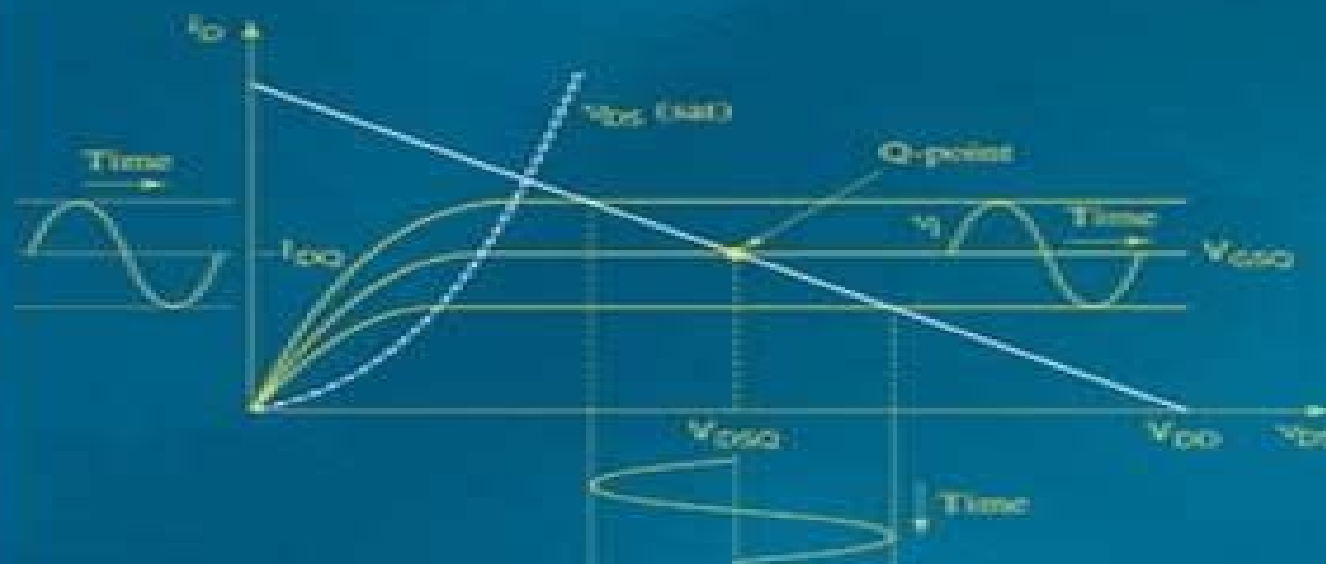


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Millimeter-Wave Power Amplifiers Jaco du Preez, Saurabh Sinha, 2017-10-05 This book provides a detailed review of millimeter wave power amplifiers, discussing design issues and performance limitations commonly encountered in light of the latest research. Power amplifiers which are able to provide high levels of output power and linearity while being easily integrated with surrounding circuitry are a crucial component in wireless microwave systems. The book is divided into three parts: the first of which introduces readers to mm wave wireless systems and power amplifiers. In turn, the second focuses on design principles and EDA concepts while the third discusses future trends in power amplifier research. The book provides essential information on mm wave power amplifier theory as well as the implementation options and technologies involved in their effective design, equipping researchers, circuit designers and practicing engineers to design, model, analyze, test and implement high performance spectrally clean and energy efficient mm wave systems. *IEEE Circuits & Devices*, 1997

Hardware Security Swarup Bhunia, Mark M. Tehranipoor, 2018-10-30 Hardware Security: A Hands On Learning Approach provides a broad, comprehensive and practical overview of hardware security that encompasses all levels of the electronic hardware infrastructure. It covers basic concepts like advanced attack techniques and countermeasures that are illustrated through theory, case studies and well designed hands on laboratory exercises for each key concept. The book is ideal as a textbook for upper level undergraduate students studying computer engineering, computer science, electrical engineering and biomedical engineering but is also a handy reference for graduate students, researchers and industry professionals. For academic courses, the book contains a robust suite of teaching ancillaries. Users will be able to access schematic layout and design files for a printed circuit board for hardware hacking, i.e. the HaHa board that can be used by instructors to fabricate boards, a suite of videos that demonstrate different hardware vulnerabilities, hardware attacks and countermeasures, and a detailed description and user manual for companion materials. Provides a thorough overview of

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