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helps readers understand the physics behind mos devices for low voltage and low energy applications based on timely published and unpublished work written by expert authors discusses various promising mos devices applicable to low energy environmental and biomedical uses describes the physical effects quantum tunneling of mos devices demonstrates the performance of devices helping readers to choose right devices applicable to an industrial or consumer environment addresses some ge based devices and other compound material based devices for high frequency applications and future development of high performance devices seemingly innocuous everyday devices such as smartphones tablets and services such as on line gaming or internet keyword searches consume vast amounts of energy even when in standby mode all these devices consume energy the upcoming internet of things iot is expected to deploy 60 billion electronic devices spread out in our homes cars and cities britain is already consuming up to 16 per cent of all its power through internet use and this rate is doubling every four years according to the uk s daily mail may 2015 if usage rates continue all of britain s power supply could be consumed by internet use in just 20 years in 2013 u s data centers consumed an estimated 91 billion kilowatt hours of electricity corresponding to the power generated by seventeen 1000 megawatt nuclear power plants data center electricity consumption is projected to increase to roughly 140 billion kilowatt hours annually by 2020 the equivalent annual output of 50 nuclear power plants natural resources defense council usa feb 2015 all these examples stress the urgent need for developing electronic devices that consume as little energy as possible the book mos devices for low voltage and low energy applications explores the different transistor options that can be utilized to achieve that goal it describes in detail the physics and performance of transistors that can be operated at low voltage and consume little power such as subthreshold operation in bulk transistors fully depleted soi devices tunnel fets multigate and gate all around mosfets examples of low energy circuits making use of these devices are given as well the book mos devices for low voltage and low energy applications is a good reference for graduate students researchers semiconductor and electrical engineers who will design the electronic systems of tomorrow dr jean pierre colinge taiwan semiconductor manufacturing company tsmc the authors present a creative way to show how different mos devices can be used for low voltage and low power applications they start with bulk mosfet following with soi mosfet finfet gate all around mosfet tunnel fet and others it is presented the physics behind the devices models simulations experimental results and applications this

book is interesting for researchers graduate and undergraduate students the low energy field is an important topic for integrated circuits in the future and none can stay out of this prof joao a martino university of sao paulo brazil

tremendous progress has been made in the last few years in the growth doping and processing technologies of the wide bandgap semiconductors as a result this class of materials now holds significant promise for semiconductor electronics in a broad range of applications the principal driver for the current revival of interest in III-V nitrides is their potential use in high power high temperature high frequency and optical devices resistant to radiation damage this book provides a wide number of optoelectronic applications of III-V nitrides and covers the entire process from growth to devices and applications making it essential reading for those working in the semiconductors or microelectronics broad review of optoelectronic applications of III-V nitrides

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