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# Gan Transistors For Efficient Power Conversion By Alex Lidow Johan Strydom

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**May 12th, 2020 - 38 power semiconductors epc co issue 3 2013 power electronics europe power mag gan transistors for efficient power conversion for over three decades power management efficiency and cost showed steady improvement as innovations in power mosfet structures technology and circuit topologies paced the growing need for'**

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technology and specific'

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**transistors"edn gan transistors for efficient power conversion buck**

**May 22nd, 2020 - editor s note we bring you chapter 5 buck converters of gan transistors for efficient power conversion published by power conversion publications the authors delve into various buck converter designs using gan fets as the foundational part of the design architecture previously we shared chapter 1 gallium nitride gan technology overview and chapter 6**

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**isolated full'**

**'gan and sic technologies enable increased efficiency in**

June 4th, 2020 - are needed as power efficiency is important to minimize operating costs but also to reduce heat and the space required for cooling gan transistor based power supplies provide these advantages by delivering higher inherent conversion efficiency and the use of smaller inductors and capacitors gan power supplies also foster single stage conversion'

**'gan transistors for efficient power conversion wiley**

May 3rd, 2020 - with higher frequency switching capabilities gan devices offer the chance to increase efficiency in existing applications such as dc dc conversion while opening possibilities for new applications including wireless power transfer and envelope tracking'

**'dc dc conversion handbook a supplement to gan transistors**

May 20th, 2020 - the dc dc converter handbook is intended for power system designers who employ gan gallium nitride power transistors it supplements gan transistors for efficient power conversion which was published in 2012 this new book emphasizes use of enhancement mode gan called egan power transistors for dc dc power conversion'

**'gan transistors for efficient power conversion**

April 23rd, 2020 - title gan transistors for efficient power conversion alex lidow ph d efficient power conversion corporation epc usa michael de rooij ph d 6 4 1 thermal model of a power stage with discrete gan transistors 115 6 4 2 thermal model of a power stage with a monolithic gan'

**'epc launches 3rd edition of gallium nitride gan textbook**

December 26th, 2019 - gan theory and applications such as lidar dc dc conversion and wireless power using gallium nitride fets and ics form the focus of this third edition of gan transistors for efficient power'

**'gan transistors for efficient power conversion second edition**

May 21st, 2020 - efficient power conversion corporation epc produces an enhancement mode gan transistor using a proprietary process with a gan on silicon structure"gan transistors for efficient power conversion lidow

May 14th, 2020 - gallium nitride gan is an emerging technology that promises to displace silicon mosfets in the next generation of power transistors as silicon approaches its performance

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*limits gan devices offer superior conductivity and switching characteristics allowing designers to greatly reduce system power losses size weight and cost'*

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## **'technologies gt gan transistors power electronics**

May 17th, 2020 - gan on silicon e hemt transistors are the choice for maximum performance efficiency and cost effective power supplies cost effective driver technology enhances supply performance by simplifying layout reducing ponent count and improving reliability'

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**June 1st, 2020 - this 2nd edition of gan transistors for efficient power conversion textbook has been expanded from its 1st edition it includes the latest technological development of gallium nitride devices and an expansion of application examples which makes the book an even more powerful and useful guiding tool for readers'**

## **'gallium nitride enabled high frequency and high efficiency**

**June 3rd, 2020 - the new gan based transistors here described e gallium nitride enabled high frequency and high efficiency power conversion springerlink skip to main content skip to table of contents'**

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**'publications gallium nitride gan ics and semiconductors**

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***mechanism of current collapse free operation in e mode gan***

**March 19th, 2020 - mechanism of current collapse free operation in e mode gan gate injection transistors employed for efficient power conversion abstract due to the superior characteristics of gan to si they can be utilized to drastically increase the efficiency and minimize the size of power converter system"**

**gan transistors drive control thermal management and**

**May 28th, 2020 - in addition epc efficient power conversion corporation using gan technology has been able to demonstrate highly petitive normally off low voltage power transistors the chart shown in fig 8 4 pares state of the art 20 to 40 v si mosfet with the 40 v epc gan devices this parison suggests that it is possible to consider that a'**

**'gan technology overview gan transistors for efficient**

**April 25th, 2020 - the chapter describes several methods of making enhancement mode gan transistors in june 2009 efficient power conversion corporation introduced the first enhancement mode gan on silicon field effect transistors designed specifically as power metal**



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**oxide silicon field effect transistor replacements'**

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**'gan transistors for efficient power conversion alex**

*May 14th, 2020 - the first edition of gan transistors for efficient power conversion was self published by epc in 2012 and is currently the only other book to discuss gan transistor technology and specific applications for the technology more than 1 200 copies of the first edition have been sold through or distributed to selected university professors students and potential customers and a'*

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**'gan transistors epc digi key**

**April 21st, 2020 - gan transistors for efficient power conversion accelerate the learning curve with epc s prehensive guide epc announces the publication of the textbook gan transistors for efficient power conversion designed to provide power system design engineers with basic technical and application focused information on how to design more efficient'**

**gan transistors for efficient power conversion wiley**  
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**alex lidow**  
*May 5th, 2020 - alex lidow is ceo and co founder of efficient power conversion epc former ceo of international rectifier and is the co inventor of the hexfet power mosfet a power transistor lidow is co author of the book gan transistors for*

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efficient power conversion 2012 wiley he has authored numerous peer reviewed publications on related subjects and received the 2015 semi award for north america'

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