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**By Enrico Santi**

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Transient Electro-Thermal Modeling on Bipolar Power Semiconductor Devices (Synthesis Lectures on Power Electronics) [Tanya Kirilova Gashovska, Bin Du, Jerry L  
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Power semiconductor device design and modeling; Power electronics design; About Jerry L. Hudgins  
<http://engineering.unl.edu/ece/faculty/jerry-l-hudgins/>

Insulated Gate Bipolar Transistor, thermal-electric analysis, semiconductor device, which has lower power electro-thermal finite element analysis  
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Transient electro-thermal modelling of AlGaAs/GaAs HBTs thermal diffusion; transient analysis; discretised equivalent circuit model; heterojunction bipolar  
<http://ieeexplore.ieee.org/xpl/abstractKeywords.jsp?reload=true&arnumber=493705>

Semiconductor Modeling: Transient Analysis of Electric Power Circuits Handbook  
Control Design Techniques in Power Electronics Devices  
[http://kutuphane.ankara.edu.tr/e\\_kitap\\_liste/Engineering.xls](http://kutuphane.ankara.edu.tr/e_kitap_liste/Engineering.xls)

This book presents physics-based electro-thermal models of bipolar power semiconductor devices including their packages, and describes their implementation in MATLAB  
<http://www.worldcat.org/title/transient-electro-thermal-modeling-of-bipolar-power-semiconductor-devices/oclc/866564238>

The thermal analysis and management is an important issue for power semiconductor devices especially as "Transient electro-thermal modeling on <http://digitalcommons.unl.edu/dissertations/AAI3315325/>

Feb 28, 2013 This is a tutorial of transient thermal analysis in ANSYS. [http://www.youtube.com/watch?v=0-YKqOC\\_0tU](http://www.youtube.com/watch?v=0-YKqOC_0tU)

Transient Analysis of Electric Power Circuits Handbook Fundamentals of Power Semiconductor Devices Thermal Power Plant Performance Analysis <http://www.msrit.edu/wp-content/uploads/2014/08/Springer-e-Books-to-VTU-Consortium.xls>

Electro-thermal analysis of paralleled bipolar the authors introduced a very simple electro-thermal model of the power bipolar The same transient is <http://www.sciencedirect.com/science/article/pii/S0026269200000550>

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Microelectronics Reliability Coupled electro-thermal and thermal on the chips of power semiconductor devices. We also study <http://www.sciencedirect.com/science/journal/00262714/51/9-11>

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The use of new wide bandgap power semiconductor devices, Previous electro-thermal models rely on proprietary dimensional data, Enrico Santi, University of <http://www.apec-conf.org/conference/1564-2/>

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Electro-thermal modeling. In order to model the whole transient thermal response on I C, A scalable thermal model for trench isolated bipolar devices.  
<http://www.sciencedirect.com/science/article/pii/S0038110112000925>