

# Essential Physics Of Nanoscale Transistors (Lessons From Nanoscience: A Lecture Note Series) By Mark Lundstrom

By Mark Lundstrom

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of the Singapore \n Millennium Fellowships 2006 and the IEEE Electron  
Device Society Fellowship \n 2005.\n \n /\*Note: transistors \,  
vertical  
<http://gc.science.nus.edu.sg/calendar/ical/2015-08/calendar.ics>

Mark Levene, Birkbeck University Nanotechnology: Science and  
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Lutkepohl,  
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The device physics of nanoscale MOSFETs is explored by numerical  
simulations of a model transistor. The physics of charge control,  
source velocity saturation due to  
[http://ieeexplore.ieee.org/xpls/abs\\_all.jsp?arnumber=974760](http://ieeexplore.ieee.org/xpls/abs_all.jsp?arnumber=974760)

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<http://sci.math.symbolic.narkive.com/bqOUZlTy/22000>

Essential Physics of the Nanoscale of the essential physics of nanoscale transistors as well as of how nanoscale transistors operate  
<http://nanohub.org/groups/u/ece650nt>

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<https://lumbungbuku.wordpress.com/author/lumbungbuku/page/104/>

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May 15, 2014 Table of Contents: 00:09 L1.1: The Transistor as a Black Box 00:55 side and top views of a MOSFET 02:47 transistors 03:15 transistor as a "black box" 04:23  
<http://www.youtube.com/watch?v=hbKA2OHsWkI>

We review our efforts on using numerical simulations to study essential physics of dissipative quantum transport in nanoscale field-effect transistors (FETs).  
<http://ieeexplore.ieee.org/xpl/articleDetails.jsp?arnumber=6256945&pageNumber%3D68212%26rowsPerPage%3D50>

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Mark Lundstrom Nanoscale Transistors: Applications of Random Matrices in Physics (NATO Science Series II: Topology and Geometry in Physics (Lecture Notes in

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Computational Physics (physics.comp-ph); Mesoscale and Nanoscale Physics Journal of Physics: Conference Series 297 Invited keynote lecture at the 2nd

<http://arxiv.org/list/cond-mat/10?skip=10715&show=2000>

(London Mathematical Society Lecture Note Series) Nanoscale Transistors Mark Lundstrom; Algebras in Physics (Montroll Memorial Lecture Series in

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Nanoscale transistors: Device Physics, Modeling and Simulation Mark Lundstrom, Mathematical Society Lecture Note Series Andrew Ranicki 2006 Cambridge

<https://lumbungbuku.wordpress.com/2013/07/page/20/>

Thermal Energy at the Nanoscale; Nanoscale Transistors; Lessons from Nanoscience. by Mark Lundstrom keyed to these lecture notes. Mark S. Lundstrom and

<http://nanohub.org/topics/LessonsfromNanoscience>

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