

IEEE  
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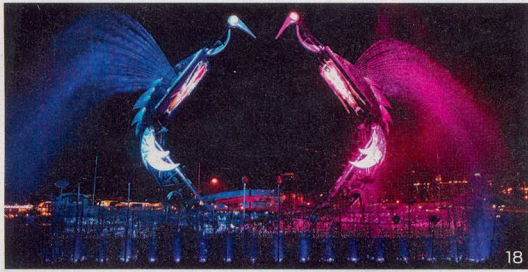
# BIOLOGICAL TRANSISTORS

*BIOENGINEERS ARE APPLYING  
THE CONCEPTS OF ELECTRICAL  
ENGINEERING TO CONTROL GENES  
MORE PRECISELY AND FLEXIBLY*

**SUPERCONDUCTIVITY'S  
FIRST CENTURY**  
SUPERSTRONG  
MAGNETS ARE NICE,  
BUT WHAT'S NEXT?

**REPACKAGING  
THE CHIP**  
NEW DESIGNS  
ARE MAKING  
SMARTPHONES  
SMARTER





## UPDATE

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Machine-learning tricks are letting computers diagnose mental illnesses.  
*By Samuel K. Moore*

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Many of today's gadgets can't be tinkered with—some won't even let you change the battery. What's an engineer to do?  
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An IEEE Spectrum editor finds the creator of QuickBooks among his grapevines and olive trees.

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*By Paul Wallich*

**21 PROFILE**  
Life recipe: Take equal parts software, wine, and olive oil. Mix well.  
*By Tekla S. Perry*

**22 CAREERS**  
Since 1991 there have been 1600 For Dummies titles and 1300 Complete Idiot's Guides. How hard can it be to write one?  
*By Mark Anderson*

**23 BOOKS**  
Is there a harder topic for an idiot's guide than string theory? Yet two books have covered it successfully.  
*By Mark Anderson*

**24 GEEK LIFE**  
Only the geekiest of geeks would apply social networking to the problem of bad dates.  
*By Susan Karlin*

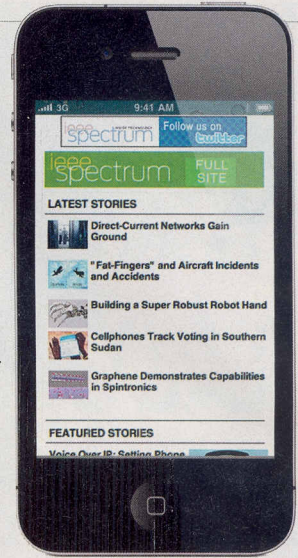
**60 THE DATA**  
Hundreds of billions of dollars are being spent around the world on high-speed rail—some of it even in the United States.  
*By Steven Cherry*

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AVAILABLE 7 MARCH

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**31 March: Kinetis ARM Cortex-M4 MCUs: The Inside Story**

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**Integrated Electronics Cooling Solution**

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CLOCKWISE FROM LEFT: WONG MAYE-E/AP PHOTO; APPLE; GEORGIA TECH



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