



[HOME](#)
[FORUM](#)
[WEBLOG](#)
[SEARCH](#)
[ARCHIVE](#)
[NEWSLETTER](#)
[VIDEO](#)

News by category

- » [Electronic Devices](#)
- » [General Science](#)
- » [Nanotechnology](#)
- » [Physics](#)
- » [Space and Earth science](#)
- » [Technology](#)
- » [News Videos](#)
- » [Books directory](#)
- » [Free Magazines](#)

Most popular

- » [Scratches no match for Nissan's new car paint](#)
- » [Interstellar Spaceflight: Is It Possible?](#)
- » [On-line gamer dies](#)
- » [Japan hopes to predict 'Big One' with journey to center of Earth](#)
- » [New Israeli mobile phone to detect breast cancer](#)

News videos

- » [Science news videos](#)
- » [Space news videos](#)
- » [Science&Nature news videos](#)
- » [Science&Tech news videos](#)
- » [Your Health news videos](#)
- » [World Headlines news videos](#)

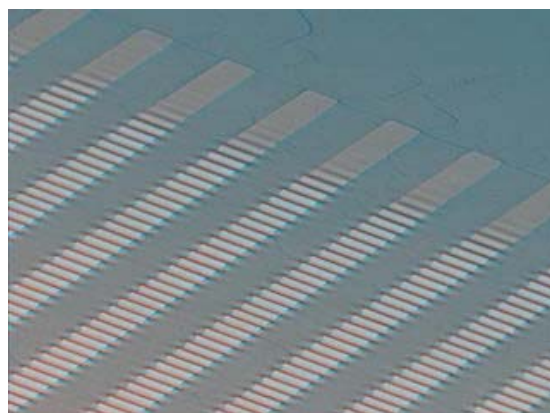
Latest forum posts

- [Japanese hope a little too much](#)
 last post by [livetothink.com](#)
- [a code](#)
 last post by [CountyCoroner](#)
- [Time til.....](#)
 last post by [ubavontuba](#)
- [Question about the 9/11 Pentagon incident](#)
 last post by [what?](#)
- [Basic Physics](#)
 last post by [metamars](#)
- [Plane on conveyer... Will it ever take off?](#)
 last post by [fargo boyle](#)
- [Gravity, mass and energy](#)
 last post by [WaterBreath](#)

Stretchable silicon could be next wave in electronics

Physics : December 15, 2005

[Newsletter](#)
[Print](#)
[Email](#)
 Font size: - N +



The next wave in electronics could be wavy electronics. Researchers at the University of Illinois at Urbana-Champaign have developed a fully stretchable form of single-crystal silicon with micron-sized, wave-like geometries that can be used to build high-performance electronic devices on rubber substrates.

Sponsored Links (Ads by Google)

[SUPERSiC Silicon Carbide](#) - [www.poco.com](#)

Beryllium Replacement. Optics & structures. Design flexibility.

[Silcon Metal Powder](#) - [www.micronmetals.com](#)

99.999% pure for thermal, optical, mechanical and electrical uses

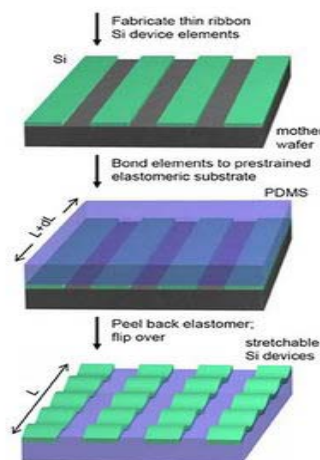
Image: Scanning electron micrograph of 'wavy' single crystal silicon ribbons on an elastomeric substrate. This form of silicon has the unusual property that it is fully stretchable, with mechanics similar to an accordion bellows.

[\[Rate the story\]](#)

[User rating: **4.7** out of 5 after 7 total votes]

[\[Comments\]](#)

[\[Blog It\]](#)



Breaking news:

Technology

[Lenovo's bid to challenge Dell](#)
2 hours ago

Physics

[New thin film lithium technology may power Christmas of the future](#)
2 hours ago

Space and Earth science

[Geologists suggest Mars features are result of meteorite strikes, not of evaporated lakes](#)
2 hours ago

General Science

[Sweden to scrutinize eugenics past](#)
2 hours ago

General Science

[Fear of death factors into how we vote](#)
2 hours ago

Space and Earth science

[Mars region probably less watery than thought](#)
3 hours ago

Physics

global warming,,somethings forgotten

last post by **adoucette**

How small?

last post by **Confused2**

Delta 32 mutation

last post by **Guest**

All today's posts

News archive

» [News archive](#)

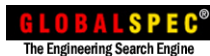
» [Search](#)

Survey

Help us make our site better!

Take PhysOrg.com Survey

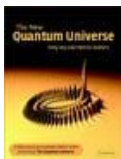
The survey takes less than two minutes, there's nothing to identify you personally, and you won't receive any email or other sales pitches by participating.



The Engineering Search Engine



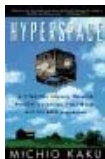
Products & Suppliers



[The New Quantum Universe](#)

Tony Hey

[Best Price \\$18.49](#)
or Buy New \$24.41



[Hyperspace](#)

Michio Kaku

[Best Price \\$4.50](#)
or Buy New \$10.85



Related stories:

» [The Impossible Is Possible: Laser Light from Silicon , November 21, 2005](#)

» [Researchers develop technique to use dirty silicon, could pave way for cheaper solar energy , August 16, 2005](#)

» [A new spin on silicon , August 02, 2005](#)

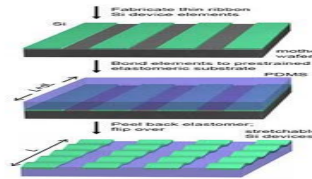
» [New design developed for silicon nanowire transistors , July 01, 2005](#)

» [Silicon solution could lead to a truly long-life battery , May 10, 2005](#)

» [Nanobridges Show Way to Nano Mass Production , April 07, 2005](#)

» [Scientists Make Magnetic Silicon, Advancing Spin Based Computing , January 10, 2005](#)

» [Applied Materials and AmberWave Collaborate to Deliver 300mm Strained Silicon Technology , December 15, 2004](#)



Schematic illustration of the process for building stretchable single crystal silicon devices on rubber substrates.

FindWhat search:

Search

PhysOrgForum discussions:

This is a place for us to exchange thought and is public so we can communicate. Your post will be added to PhysOrgForum.

You need to be registered at PhysOrgForum to add your comments.

If you do not have a username / password please [register here](#) !

We require registration to prevent spam at PhysOrgForum. Registration is very simple and will not take much time!

Username:

Password:

Topic Title:

Your comments:

NO HTML TAGS (they will be removed)!

Submit

Other news discussion topics:

- [Fusion technology](#)
- [Physicists Achieve Quantum Entanglement Between Remote Ensembles of Atoms](#)
- [After death](#)
- [Boise-Einstein Condensate](#)
- [dark matter explained](#)

[HOME](#)

[SEARCH](#)

[PDA VERSION](#)

[LINKS](#)

[CONTACT US](#)

[ADD HEADLINES TO YOUR SITE](#)

[©PhysOrg.com 2003-2005](#) [Privacy Policy](#)