Popular Science

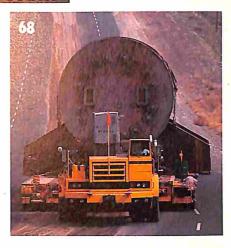
COVER STORY

APRIL 1990

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Next generation nuclear reactors

The debate over nuclear power has become more turbulent and complex than ever as the threats of global warming and an energy crisis loom closer to reality. Many, both in and out of the industry, favor a new generation of safer, simpler, more economical reactors. Many environmentalists remain skeptical.



Compact sedans

A 1970s econocar that evolved into a family sedan, the Honda Accord was America's best-selling car of 1989. But 1990 brings fresh competition, with technological advances in the Hyundai Sonata, Mitsubishi Galant, Nissan Stanza, and Subaru Legacy.



COMPUTERS AND ELECTRONICS

What's	s new	elec	troni	cs	 20
Electr	onics	news	sfron	t	 41
World	with	out v	vires		 100
レビタレクハ	MU2				

CARS AND DRIVING

What's new cars	18
Automotive newsfront	29
Car test:	
compact sedans grow up	80
"Say, Smokey—"	110

What's new recreation 23

Safer takeoffs

Pilots continue to rely on their instincts to make split-second takeoff and abort decisions. To help reduce accidents, NASA researchers have come up with a computer system designed to monitor takeoff performance.



HOME PRODUCTS AND TECHNOLOGY

RECREATION

What's new home	1
What's new nome	_
What's new tools	Z
Home newsfront	4
A house for all seasons	9
Decks that solve problems 10	0

Memory chips

With ordinary semiconductor chip capacitors, a loose AC plug or weak batteries may cause hours of work to disappear. But new integrated circuits that use ferroelectric ceramics can store data for more than 10 years even after power is turned off.



ADDITIONAL FEATURES

What's news	4
Readers talk back	
Product information	
Looking back	128

COVER PHOTO BY ED HAHN/ARGONNE LABORATORY

SAFER TAKEOFFS FOR AIRLIN

\$1.95 CANADA \$2.50 **APRIL 1990**

DARE WE BUILD THEM?

Advanced designs for nuclear plants promise an answer to our energy and climate concerns, say the likes of Paul E. Gray, president of MIT. But can we be certain this new technology is safe and reliable? A special report begins on page 68.

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