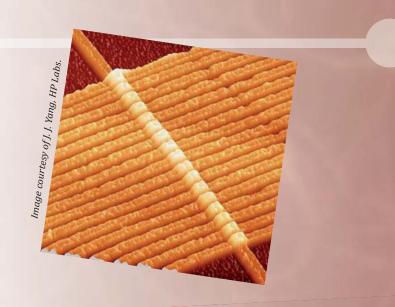
## Memristor Past, Present, and Future

A two hours lecture with

## Leon CHUA

**Electrical Engineering and Computer Sciences University of California at Berkeley** 





The 2008 Hewlett-Packard publication of the memristor in NATURE has produced immense worldwide interests from both industry and academia.

This seminar presents a prehistory of the memristor and provides answers to the following Frequently Asked Questions:

IEEE TRANSACTIONS ON CIRCUIT THEORY, VOL. CT-18, NO. 5, SEPTEMBER 1971 Memristor—The Missing Circuit Element LEON O. CHUA, SENIOR MEMBER, IEEE Times, April 30, 2008. By R. Collin Johnson for the resistor) wh The long-sought after memristor – the classical circ "missing link" in electronic circuit theory resistor, ind of a memri - has been invented by Hewlett-Packard internal po Fellow R. Stanley Williams at HP Labs laboratory presented (Palo Alto, Calif.). Memristors - the properties of which fourth passive component type after the circuitresistors, capacitors and inductors - were be derived postulated in a seminal 1971 paper in the

IEEE Transactions on Circuit Theory by

Professor Leon Chua at the University

of California (Berkeley), but their first realization was just announced today by What is a memristor?

How was it discovered?

Why is it called the 4th circuit element?

How can the memristor store information without batteries?

What are biological memristors?

Why are brains made of memristors?

How does the memristor enable learning and intelligence?

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