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	circuit; 6.2.2 Capacitor multiplier; 6.2.3 Memcapacitor emulator; 6.3 Experimental Setup; 6.4 Conclusion; References; 7 Chaos in Memristively Coupled Harmonic Oscillators; 7.1 Introduction; 7.2 Coupled Oscillator Circuits; 7.3 Memristor Mimicking Circuit; 7.4 Memristively Coupled Harmonic Oscillator Circuit; 7.5 Experimental Setup; 7.6 Conclusion; References; 8 Conclusion and Future Work; 8.1 Summary; 8.2 Memory Applications; 8.3 Low Power Devices and Sensing 8.4 Neuromorphic Applications8.5 Flexible Circuits; 8.6 Analog Applications; References; Index
Sommario/riassunto	In 1971, Leon O. Chua presented the formulation of a memristor, which was postulated as the fourth circuit element in electrical circuit theory - one that could join the existing core group of elements: capacitor, resistor and inductor. For over thirty years, the memristor had held no significance in circuit theory. Then in 2008, a group of scientists from Hewlett-Packard Labs (HP) developed a working memristor. Although the solid state implementation of the memristor inspired appreciable interest in developing applications, memristors are not yet available on the market to date. HP labs do no