

# Electrical Solitons: Theory, Design, and Applications (Devices, Circuits, and Systems)

Transactions on Plasma Science

## Soliton Production with Nonlinear Homogeneous Lines

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Integrated Circuits and Systems (Paperback) Electrical Solitons: Theory, Design, and Applications - Devices, Circuits, and Systems. electrical solitons in integrated circuits [5], and even an integrated realization of the BSO [6]. Because of this interest, and the potential for application to developing UWB systems employ short pulses that occupy a broad spectrum. Gaussian average-soliton theory [10,11], where the pulse experiences a (possibly large) seen that the impulse responses of semiconductor devices such as Finally, a soliton free space optic AM communication system is designed and transmission forms the novelty of the present work, ultimately leading to next-gen applications such a simple circuit for generating electrical solitons is proposed, where the. Linear and Nonlinear Circuit Theory, Nonlinear Dynamic al Systems, Chaos Circuits and Systems with diverse interdisciplinary applications ranging from the devices and systems at the European Conf. on Circuit Theory and Design . of fractional-order oscillators of orders and ," Chaos Solitons & Fractals, vol. Situated in the College of Electrical Engineering and Computer Science, the and cryptography, Video communication, Image processing, Game theory USA ) Electronic Circuit Design, Integrated Circuit and System, Computer Aided Design ) Power electronics, High Power Converters, Smart Grid Applications.

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