
Electrical Solitons Theory Design Applications

ieee transactions on microwave theory and techniques, vol ... - *ieee transactions on microwave theory and techniques, vol. 54, no. 1, january 2006 373 electrical soliton oscillator david s. ricketts, student member, ieee, xiaofeng li, student member, ieee, and donhee ham, member, ieee abstract—this paper introduces the first robust self-sustained electrical soliton oscillator. report documentation page form approved* - in electronics domain, electrical solitons had been passively produced by using nonlinear transmission lines. prior to this proposal, our group built, for the first time, an active electrical circuit in a discrete platform, which robustly self-generated a stable, periodic train of electrical solitons. **quantum theory of manakov solitons** - quantum theory of manakov solitons darren rand,1,* ken steiglitz,2 and paul r. prucnal1 1department of electrical engineering, princeton university, princeton, nj 08544, usa 2department of computer science, princeton university, princeton, nj 08544, usa sreceived 4 february 2005; published 11 may 2005d a fully quantum mechanical model of two-component manakov solitons is developed in both the ... **2344 ieee transactions on microwave theory and techniques ...** - 2344 *ieee transactions on microwave theory and techniques, vol. 57, no. 10, october 2009 reflection soliton oscillator o. ozgur yildirim, student member, ieee, david s. ricketts, member, ieee, and donhee ham, member, ieee abstract—we report on an electrical oscillator that self-generates a periodic train of short-duration pulses. abstract document: experimental study of solitons on ...* - department of electrical and computer engineering solitons are localized persistent waves that behave like particles, preserving their properties (shape, velocity, etc.) over long distances and through collisions with other solitons. they have practical applications and are of interest to many disciplines **edgesolitons in a nonlinear mechanical topological insulator** - topological solitons as the nonlinear mechanism for zero-frequency floppy modes to propagate through the bulk of a 1d maxwell frame [29], and the effect of nonlinearity on the resonant characteristics of high-frequency edge modes in both 1d and 2d mechanical tis [30]. in this letter, we use the theory of nonlinear waves to **physics of solitons - assets** - of the physics of solitons for students with a basic knowledge of general physics, ... 3.5 nonlinear electrical lines 96 3.6 solitons in optical fibres 98 ... which is one of the basic equations of soliton theory. the role of solitons in the **solitons in optical communication - physics & astronomy** - solitons in optical communication rakesh kumar * department of electrical engineering, university of new mexico,albuquerque, new mexico, 87131-1156, usa ... the development of the mathematical theory of solitons starting in 1965 by zabrusky and kruskal, lax, zakharov **theory of incoherent dark solitons - harvard john a ...** - theory of incoherent dark solitons demetrios n. christodoulides and tamer h. coskun department of electrical engineering and computer science, lehigh university, bethlehem, pennsylvania 18015 matthew mitchell, zhigang chen, and mordechai segev electrical engineering department, princeton university, princeton, new jersey 08544 **passive & active control of regenerative standing ...** - solitons per se are well known phenomena that have captivated scientists over a century. in the electrical domain, the nonlinear transmission line (nltl) [1d lattice of inductors and varactors: fig. 1(a)] has been extensively used to create electrical solitons over the past 40 years for sharp pulse generation [10]. in these developments ... **free space optics using soliton carriers - vixra** - free space optics using soliton carriers sai venkatesh balasubramanian sree sai vidhya mandhir, mallasandra, bengaluru-560109, karnataka, india saivenkateshbalasubramanian@gmail abstract: the concept of solitons has been successfully utilized in optical communications to handle signal distortion. **chaos analysis of the electrical signal time series evoked ...** - chaos analysis of the electrical signal time series evoked by acupuncture jiang wang a,*, li sun a, xiangyang fei a, bing zhu b a school of electrical engineering, tianjin university, tianjin 300072, pr china b institute of acupuncture and moxibustion, china academy of traditional chinese medicine, beijing 100700, pr china accepted 5 january 2006 abstract this paper employs chaos theory to ... **soliton carriers in cdma and ofdm communication systems** - soliton carriers in cdma and ofdm communication systems sai venkatesh balasubramanian sree sai vidhya mandhir, mallasandra, bengaluru-560109, karnataka, india saivenkateshbalasubramanian@gmail abstract: the concept of solitons has been successfully utilized in optical communications to handle signal distortion. **v - dspace.mit** - department of electrical engineering and computer science on august 15, 1991 in partial fulfillment of the requirements for the degree doctor of philosophy. abstract a quantum theory of optical solitons is developed. two kinds of optical soliton phenomena are studied : solitons in optical fibers and self-induced transparency

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