

# Characterisation of the set of ground states of uniformly chaotic finite-range lattice models

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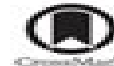
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## Abstract

Chaotic dependence on temperature refers to the phenomenon of non-convergence of Gibbs measures as the temperature approaches a certain value. Models with chaotic behaviour near zero temperature have multiple ground states, none of which are stable. We study the class of uniformly chaotic models, that is, those in which, as the temperature goes to zero, every choice of Gibbs measures accumulates on the entire set of ground states. We characterise the possible sets of ground states of uniformly chaotic finite-range models up to computable homeomorphisms. Namely, we show that the set of ground states of every uniformly chaotic model with finite-range and rational-valued interactions is topologically closed and connected, and belongs to the class  $\Pi_2$  of the arithmetical hierarchy. Conversely, every  $\Pi_2$ -computable, topologically closed and connected set of probability measures can be encoded (via a computable affine homeomorphism) as the set of ground states of a uniformly chaotic two-dimensional model with finite-range rational-valued interactions.

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# A Chaotic Range

**Robert Stuart Houghton**



## **A Chaotic Range:**

**Control of Homoclinic Chaos by Weak Periodic Perturbations** Ricardo Chac n,2005 This monograph presents a reasonably rigorous theory of a highly relevant chaos control method suppression enhancement of chaos by weak periodic excitations in low dimensional dissipative and non autonomous systems The theory provides analytical estimates of the ranges of parameters of the chaos controlling excitation for suppression enhancement of the initial chaos The important applications of the theory presented in the book include 1 control of chaotic escape from a potential well 2 suppression of chaos in a driven Josephson junction 3 control of chaotic solitons in Frenkel Kontorova chains 4 control of chaotic breather dynamics in perturbed sine Gordon equations 5 control of chaotic charged particles in electrostatic wave packets **Optical Communication with Chaotic Lasers** Atsushi Uchida,2012-02-13 Starting with an introduction to the fundamental physics in chaotic instabilities in laser systems this comprehensive and unified reference goes on to present the techniques and technology of synchronization of chaos in coupled lasers as well as the many applications to lasers and optics communications security and information technology Throughout it presents the current state of knowledge including encoding decoding techniques performance of chaotic communication systems random number generation and novel communication technologies *Computational Intelligence for Signal and Image Processing, volume II* Deepika Koundal,Jussi Tohka,2025-03-24 The first volume of this collection comprised 10 research articles that focused on the applications of Computational Intelligence for Signal and Image Processing such as education healthcare and security The findings presented in this Research Topic showcased the active development and research within the field of Computational Intelligence methods for the times ahead Due to the success of that first volume and to facilitate its progression this second volume embarks on an intriguing exploration at the intersection of neuroscience and cutting edge technology This edition focuses on algorithms inspired by the intricacies of the brain delving into how these algorithms act as catalysts for the evolution of methodologies in image video and signal processing IoT applications and beyond It highlights the profound potential of brain inspired algorithms to revolutionize various domains paving the way for innovation and efficiency

**Information Computing And Automation (In 3 Volumes) - Proceedings Of The International Conference** Jian Ping Li,Igor Bloshanskii,Lionel M Ni,S S Pandey,Simon X Yang,2008-04-25 Wavelet analysis and its applications have become one of the fastest growing research areas in the past several years Wavelet theory has been employed in many fields and applications such as signal and image processing communication systems biomedical imaging radar air acoustics and endless other areas Active media technology is concerned with the development of autonomous computational or physical entities capable of perceiving reasoning adapting learning cooperating and delegating in a dynamic environment This book consists of carefully selected and received papers presented at the conference and is an attempt to capture the essence of the current state of the art in wavelet analysis and active media technology Invited papers included in this proceedings includes

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*Data Science and Applications* Satyasai Jagannath Nanda, Rajendra Prasad Yadav, Amir H. Gandomi, Mukesh Saraswat, 2025-07-23 This book gathers outstanding papers presented at the 5th International Conference on Data Science and Applications ICDSA 2024 organized by Soft Computing Research Society SCRS and Malaviya National Institute of Technology Jaipur India from July 17 to 19 2024 The book is divided into four volumes and it covers theoretical and empirical developments in various areas of big data analytics big data technologies decision tree learning wireless communication wireless sensor networking bioinformatics and systems artificial neural networks deep learning genetic algorithms data mining fuzzy logic optimization algorithms image processing computational intelligence in civil engineering and creative computing

*Information Systems Security* Indrajit Ray, Manoj Singh Gaur, Mauro Conti, Dheeraj Sanghi, V. Kamakoti, 2016-11-24 This book constitutes the refereed proceedings of the 12th International Conference on Information Systems Security ICISS 2016 held in Jaipur India in December 2016 The 24 revised full papers and 8 short papers presented together with 4 invited papers were carefully reviewed and selected from 196 submissions The papers address the following topics attacks and mitigation authentication authorization and information flow control crypto systems and protocols network security and intrusion detection privacy software security and wireless mobile and IoT security

*A Chaotic Paradigm* Robert Stuart Houghton, 1989

**Selected Papers on Optical Chaos** F. T. Arecchi, Robert G. Harrison, 1994

*Seonee; or, camp life on the Satpura Range* Robert Armitage Sterndale, 1887

**Ophiolites, Arcs, and Batholiths** James Earl Wright, John W. Shervais, 2008-01-01 Wright geology U of Georgia and Shervais geology Utah State U edit selections from a symposium titled Ophiolites Batholiths and Regional Geology A Session in Honor of Cliff Hopson held at the Cordilleran Section Meeting of The Geological Society of America in 2005 With contributions from geologists and earth scientists from throughout the United States the title contains separate sections for papers on the topics of ophiolites arcs and batholiths The publication is illustrated in both black and white and color but contains no index

*The North-Western Provinces of India* William Crooke, 1897

**A Chaotic Range** Andrew Grey, 2014-11-07 Stories from the Range Book Seven Most of the time ranchhand David rescues stray cattle but this time he and his fellow cowboys Wally and Haven save a stranded motorist David is surprised to find his former high school classmate nearly frozen in his car After learning that Brian Applewright's boss fired him from his ranch for being gay they invite him back to theirs to take a job David and Brian moved in different social circles at school but working together brings them closer However David has a rocky history on the ranch The foreman is his ex and he only recently returned after a heartbreakingly unsuccessful attempt to find greener pastures He can't risk his heart getting close to anyone But on a ranch nature has a way of forcing an issue When a snowstorm threatens David and Brian head out to mend a fence and round up

some stray cattle David gets injured and they must survive in the snow cold and wind It might be the start of a relationship or the end of their lives      *The Earth and Its Inhabitants, North America: Mexico, Central America, West Indies* Elisée Reclus,1891      **The Earth and Its Inhabitants ...** Elisée Reclus,1891      The Earth and Its Inhabitants ...: Mexico, Central America, West Indies Elisée Reclus,1891      **The Earth and Its Inhabitants ...: British North America** Elisée Reclus,1891      **1st -12th Annual Report of the United States Geological and Geographical Survey of the Territories ...** Geological and Geographical Survey of the Territories (U.S.),1877      *Preliminary Report of the United States Geological Survey of Montana and Portions of Adjacent Territories* Geological and Geographical Survey of the Territories (U.S.),1877      **Applied Mechanics Reviews** ,1989      Our Indian empire and the adjacent countries Robert Montgomery Martin,1879

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web the following is an example of a sample letter to school principal for transfer to another school date sub intent letter of school transfer present school s name address dear sir madam my name is lily smith i am one of

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