
DYNAMICS OF JOSEPHSON JUNCTIONS AND CIRCUITS

KONSTANTIN K. LIKHAREV

Dynamics Of Josephson Junctions And Circuits

**Bernd Krauskopf, Hinke M.
Osinga, Jorge Galan-Vioque**



Dynamics Of Josephson Junctions And Circuits:

Dynamics of Josephson Junctions and Circuits Likharev,1986-08-11 This monograph is intended to give a relatively complete review of Josephson junction dynamics as it stands in the mid 1980 s The main idea of the author is to present the reader with as many useful results as possible by the simplest means rather than to demonstrate theoretical muscle This is why almost all the topics requiring elaborate techniques for their analysis are shifted to the ends of the chapters and the most complex chapters to the end of the book Topics which are of relatively minor importance for further discussion are mainly presented in the form of problems at the end of the sections from Preface [Dynamics of Josephson Junctions and Circuits](#) Konstantin K. Likharev,2022-02-13 This monograph offers a detailed description of the statistics dynamics and statics of Josephson junctions Particular emphasis is placed on the dynamics of new circuits and analog and digital devices using single quanta of magnetic flux *Dynamics of Josephson Junctions and Circuits* Konstantin K. Likharev,2022-02-13 This monograph offers a detailed description of the statistics dynamics and statics of Josephson junctions Particular emphasis is placed on the dynamics of new circuits and analog and digital devices using single quanta of magnetic flux **Dynamics of Josephson Junctions and Circuits** Kostantin K. Kikharev,1984 **Dynamics Of Josephson Junctions And Circuits** K.K. Likharev, *Modern Aspects of Josephson Dynamics and Superconductivity Electronics* Iman Askerzade,Ali Bozbej,Mehmet Cantürk,2017-01-25 In this book new experimental investigations of properties of Josephson junctions and systems are explored with the help of recent developments in superconductivity The theory of the Josephson effect is presented taking into account the influence of multiband and anisotropy effects in new superconducting compounds Anharmonicity effects in current phase relation on Josephson junctions dynamics are discussed Recent studies in analogue and digital superconductivity electronics are presented Topics of special interest include resistive single flux quantum logic in digital electronics Application of Josephson junctions in quantum computing as superconducting quantum bits are analyzed Particular attention is given to understanding chaotic behaviour of Josephson junctions and systems The book is written for graduate students and researchers in the field of applied superconductivity [Numerical Continuation Methods for Dynamical Systems](#) Bernd Krauskopf,Hinke M. Osinga,Jorge Galan-Vioque,2007-11-06 Path following in combination with boundary value problem solvers has emerged as a continuing and strong influence in the development of dynamical systems theory and its application It is widely acknowledged that the software package AUTO developed by Eusebius J Doedel about thirty years ago and further expanded and developed ever since plays a central role in the brief history of numerical continuation This book has been compiled on the occasion of Sebius Doedel s 60th birthday Bringing together for the first time a large amount of material in a single accessible source it is hoped that the book will become the natural entry point for researchers in diverse disciplines who wish to learn what numerical continuation techniques can achieve The book opens with a foreword by Herbert B Keller and lecture notes by Sebius Doedel himself that introduce the basic concepts of

numerical bifurcation analysis The other chapters by leading experts discuss continuation for various types of systems and objects and showcase examples of how numerical bifurcation analysis can be used in concrete applications Topics that are treated include interactive continuation tools higher dimensional continuation the computation of invariant manifolds and continuation techniques for slow fast systems for symmetric Hamiltonian systems for spatially extended systems and for systems with delay Three chapters review physical applications the dynamics of a SQUID global bifurcations in laser systems and dynamics and bifurcations in electronic circuits

Dynamics of Josephson Junctions in a Superconducting Ring Using a "Three-Coils" Technique , The aim of this thesis is to observe the Berezinskii-Kosterlitz-Thouless (BKT) transition on a magnetically shielded array of Josephson Junctions using an inductive technique A major component of this work was the design fabrication and investigation of the dynamics of a Superconductor Normal Superconductor (SNS) Josephson junction embedded in a coplanar and gradiometric superconducting coil The fabrication process involved a series of steps combining different thin film techniques such as photolithography sputtering Plasma Enhanced Chemical Vapor Deposition (PECVD) and Reactive Ion Etching (RIE) Furthermore to extract physical magnitudes namely the sample coil current we carried out exact calculations of the self and mutual inductances between the coils of the measurement system In order to understand the response of our device we started with a lumped circuit model consisting of a Josephson junction in series with a superconducting ring of self inductance L This model leads to a useful graphical representation which explains qualitatively the principal features of the DC and AC measurements In particular it has been demonstrated that the source of the observed dissipation in the AC measurements is a series of jumps in the total flux and a series of hysteresis cycles that the sample undergoes when subjected to an alternating magnetic field A lumped circuit model that also takes into account the normal resistance of the junction and then the dissipation has been implemented The numerical solution of the corresponding differential equation is in very good quantitative agreement with the AC measurements On the other hand it was possible for the first time with a contactless technique to extract the critical current of a Josephson junction Two principal features were observed using the device consisting of a single Josephson junction embedded in a superconducting ring Firstly a sudden fall in the critical current near the temperature at which

Nonlinear Dynamics of Josephson Junction Chains and Superconducting Resonators Adem Ergül, 2013 This thesis presents the results of the experimental studies on two kind of Superconducting circuits one dimensional Josephson junction chains and superconducting coplanar waveguide (CPW) resonators One dimensional Josephson junction chains are constructed by connecting many Superconducting quantum interference devices (SQUIDs) in series We have studied DC transport properties of the SQUID chains and model their nonlinear dynamics with Thermally Activated Phase Slips (TAPS) Experimental and simulated results showed qualitative agreement revealing the existence of a uniform phase slipping and phase sticking process which results in a voltage independent current on the dissipative branch of the current-voltage characteristics (IVC) By modulating the effective

Josephson coupling energy of the SQUIDs E_J with an external magnetic field we found that the ratio E_J/E_C is a decisive factor in determining the qualitative shape of the IVC

Applications of Superconductivity H. Weinstock, 2013-03-09 This book in essence the proceedings of a NATO Advanced Study Institute with the same title is designed to provide in depth coverage of many but not all of the major current applications of superconductivity and of many that still are being developed It will be of value to scientists and engineers who have interests in the research and production aspects of the technology as well as in the applications themselves The first three chapters by Clarke Vrba and Wikswo are devoted to an understanding of the principles fabrication and uses of SQUID magnetometers and gradiometers with the greatest emphasis on biomagnetism and nondestructive evaluation NDE For the most part traditional low temperature superconductor LTS SQUIDs are used but particularly for NDE high temperature superconductor HTS SQUIDs are proving useful and often more convenient The succeeding three chapters by Przybysz Likharev and Chaloupka cover broader aspects of superconducting electronics The first two of these deal primarily with digital L TS circuits while the third discusses in great detail passive component applications using HTS materials Currently HTS filters are undergoing intense J3 site testing at cellular telephone base stations While it is clear that HTS filters outperform conventional filters in reducing signal loss and allowing for more channels in a given bandwidth it isn't yet certain that the cellular telephone industry sees sufficient economic benefits to make a firm decision to use HTS filters universally in its systems If this application is generally adapted the market for these filters should be quite large

Scaling of Josephson Logic Circuits Herbert Ling Ko, 1987 *SIAM Journal on Applied Mathematics*, 2000

The Complete Dynamics of the Forced Josephson Junction Circuit Fathi M. Abdel Salam, Sosale Shankara Sastry, 1983

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Principles of Superconductive Devices and Circuits Theodore Van Duzer, Charles William Turner, 1981

Noise in Complex Systems and Stochastic Dynamics II Zoltán Gingl, Society of Photo-optical Instrumentation Engineers, 2004 Proceedings of SPIE present the original research papers presented at SPIE

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