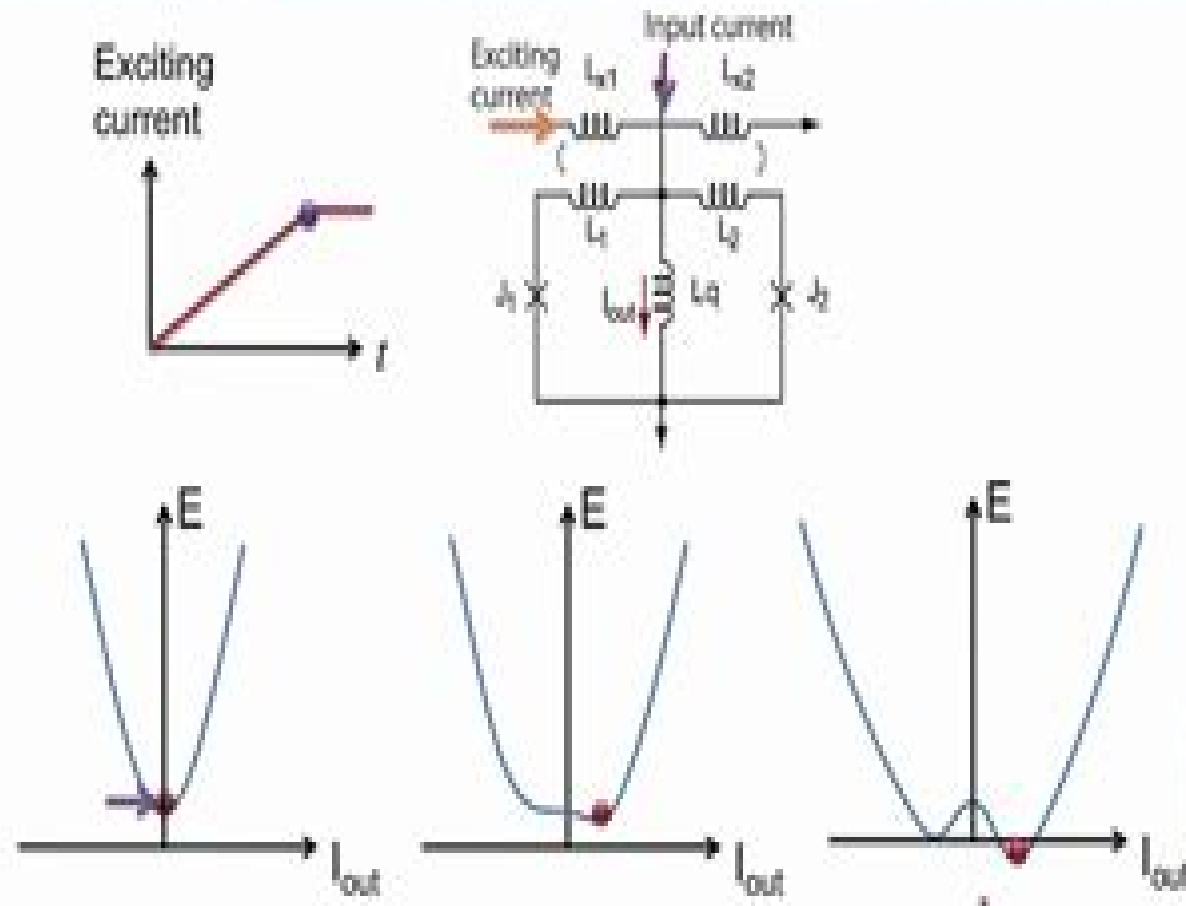


# Operation Principle of Quantum Flux Parametron (QFP)



And the logic stayed  
close to the right side.

# Quantum Flux Parametron

**Eiichi Goto, Kia Fock Loe**



## **Quantum Flux Parametron:**

*Quantum Flux Parametron* Eiichi Goto, Willy Hioe, 1991-03-30 This book concerns a Josephson device for supercomputers which has extremely low heat dissipation about 10<sup>6</sup> times less than semiconductor devices and 10<sup>3</sup> times less than voltage based Josephson devices In the previous book on Quantum Flux Parametrons QFPs DC Flux Parametron the basic device operation are described This book deals in much greater depth on the problems which are faced by the QFP The device characteristics are worked out in detail showing clearly the analysis methods used A new logic gate using the QFP is described with respect to its basic scheme operation and ways for forming logic circuits The problems faced by the basic QFP are much reduced in the new logic gate As the QFP operates near the Heisenberg and Boltzmann limits for computing devices we also show the relationship between speed and stability The book contains the latest analytical results on QFPs The material presented in the book can be understood with very little mathematical training or knowledge about superconducting physics It is also self contained and does not require reading of other material Most of the device characteristics can be reproduced from the equations given using simple programs A circuit simulator is not needed except for high speeds when transient behavior becomes important *Advances in Quantum Flux Parametron Computer Design*

Eiichi Goto, Yasuo Wada, K. F. Loe, 1992 This volume reports new developments on work in the Quantum Flux Parametron QFP project It makes complete a series on Josephson Supercomputers which includes four earlier volumes also published by World Scientific QFP technology has great potential especially in the design of computer architecture It is regarded as being able to go beyond the horizon of current technology and is a leading direction for the advancement of computer technology in the next decade **Dc Flux Parametron: A New Approach To Josephson Junction Logic** Eiichi Goto, Kia Fock

Loe, 1986-08-01 The direct current flux parametron using Josephson junction and based on the principle of parametron seems to be the answer for the search of new technology for the future needs of computer power The combination of its very high switching speed and highly integrable Josephson junction with the established parametron computer technology accounts for its high performance This book presents the new type of Josephson computer technology which is fundamentally different from the conventional approach In this approach a logic state is represented by a flux polarity whereas the conventional approach uses a voltage state to represent a logic state *Advances In Quantum Flux Parametron Computer Design: Studies In Josephson Supercomputers*

Eiichi Goto, Kia Fock Loe, Y Wada, 1992-06-18 This volume reports new developments on work in the Quantum Flux Parametron QFP project It makes complete a series on Josephson Supercomputers which includes four earlier volumes also published by World Scientific QFP technology has great potential especially in the design of computer architecture It is regarded as being able to go beyond the horizon of current technology and is a leading direction for the advancement of computer technology in the next decade *Single Flux Quantum Integrated Circuit Design*

Gleb Krylov, Tahereh Jabbari, Eby G. Friedman, 2024-04-15 High efficiency large scale stationary computing systems

supercomputers and data centers are becoming increasingly important due to the movement of data storage and processing onto remote cloud servers This book is dedicated to a technology particularly appropriate for this application superconductive electronics in particular rapid single flux quantum circuits The primary purpose of this book is to introduce and systematize recent developments in superconductive electronics into a cohesive whole to support the further development of large scale computing systems A brief background into the physics of superconductivity and the operation of common superconductive devices is provided followed by an introduction into different superconductive logic families including the logic gates interconnect and bias current distribution Synchronization fabrication and electronic design automation methodologies are presented reviewing both widely established concepts and techniques as well as recent approaches Issues related to memory synchronization interconnects coupling noise bias networks signal interfaces and deep scaling of superconductive structures and design for testability are described and models expressions circuits algorithms and design methodologies are discussed and placed in context The aim of this book is to provide insight and engineering intuition into the design of large scale digital superconductive circuits and systems

**Reversible Computation** Shigeru Yamashita, Shin-ichi Minato, 2014-07-05 This book constitutes the refereed proceedings of the 6th International Conference on Reversible Computation RC 2014 held in Kyoto Japan in July 2014 The 14 contributions presented together with three invited talks were carefully reviewed and selected from 27 submissions The papers are organized in topical sections on automata for reversible computation notation and languages for reversible computation synthesis and optimization for reversible circuits validation and representation of quantum logic

**Issues In Josephson Supercomputer Design - Proceedings Of The 6th And 7th Riken Symposia On Josephson Electronics** Eiichi Goto, Kia Fock Loe, 1991-03-15

Quantum Flux Parametron QFP is a Josephson junction device which uses the polarities of a unit of quantum flux to represent a bit of binary information The low power consumption and the inductive nature of signal transfer of QFP promise the realizability of a highly integrated Josephson Supercomputer The miniaturization and the inductively connected circuits pose new challenges and problems to the designers of such a computer system This volume contains five papers which provide detailed illustrations of the essential problems in the design of Josephson Supercomputers The problems include i the three dimensional packaging problems in the highly integrated system ii the detection of trapped magnetic quanta iii the computation of three dimensional inductance and iv the elimination or alleviation of various internal and external operational problems of QFP arising from the limitation of the current fabrication technology as well as the inherent problems of direct coupling of QFP

**Beyond-CMOS** Alessandro Cresti, 2023-07-19 Recent advances in physics material sciences and technology have allowed the rise of new paradigms with bright prospects for digital electronics going beyond the reach of Moore's law which details the scaling limit of electronic devices in terms of size and power This book presents original and innovative topics in the field of beyond CMOS electronics ranging from steep slope devices and molecular electronics to

spintronics valleytronics superconductivity and optical chips Written by globally recognized leading research experts each chapter of this book will provide an introductory overview of their topic and illustrate the state of the art and future challenges Aimed not only at students and those new to this field but also at well experienced researchers Beyond CMOS provides extremely clear and exciting perspectives about the technology of tomorrow and is thus an effective tool for understanding and developing new ideas materials and architectures

**Handbook of Superconductivity** David A. Cardwell, David C. Larbalestier, Aleksander Braginski, 2022-07-05 This is the last of three volumes of the extensively revised and updated second edition of the Handbook of Superconductivity The past twenty years have seen rapid progress in superconducting materials which exhibit one of the most remarkable physical states of matter ever to be discovered Superconductivity brings quantum mechanics to the scale of the everyday world Viable applications of superconductors rely fundamentally on an understanding of these intriguing phenomena and the availability of a range of materials with bespoke properties to meet practical needs While the first volume covers fundamentals and various classes of materials the second addresses processing of these into various shapes and configurations needed for applications and ends with chapters on refrigeration methods necessary to attain the superconducting state and the desired performance This third volume starts with a wide range of methods permitting one to characterize both the materials and various end products of processing Subsequently diverse classes of both large scale and electronic applications are described Volume 3 ends with a glossary relevant to all three volumes

**Key Features** Covers the depth and breadth of the field Includes contributions from leading academics and industry professionals across the world Provides hands on familiarity with the characterization methods and offers descriptions of representative examples of practical applications A comprehensive reference the handbook is suitable for both graduate students and practitioners in experimental physics materials science and multiple engineering disciplines including electronic and electrical chemical mechanical metallurgy and others

**Handbook of Applied Superconductivity, Volume 2** B Seeber, 1998-01-01 The Handbook of Applied Superconductivity Two Volume Set covers all important aspects of applied superconductivity and the supporting low temperature technologies The handbook clearly demonstrates the capabilities of superconducting technologies and illustrates how to implement these technologies in new areas of academic and industrial research and development Volume One provides an introduction to the theoretical background of both low and high T<sub>c</sub> superconductivity followed by details of the basic hardware such as wires tapes and cables used in applications of superconductivity and the necessary supporting science and technology Theoretical discussions are in most cases followed by examples of real designs fabrication techniques and practical instrumentation guidance A final chapter examines materials properties at low temperatures Volume Two provides examples of current and future applications of superconductivity It covers medical systems for magnetic resonance imaging MRI high field magnets for research superconducting magnets for accelerators industrial systems for magnetic separation and transportation systems The final chapters look to future

applications in power and superconducting electronics With fully referenced peer refereed contributions from experts in various fields this two volume work is an essential reference for a wide range of scientists and engineers in academic and industrial research and development environments      Engineering Superconductivity Peter J. Lee,2001-05-02

Comprehensive coverage of superconductivity from the Wiley Encyclopedia of Electrical and Electronics Engineering Engineering Superconductivity features fifty articles selected from the Wiley Encyclopedia of Electrical and Electronics Engineering the one truly indispensable reference for electrical engineers Superconductor technology has made highly advanced experiments possible in chemistry biochemistry particle physics and health sciences and introduced new applications currently in use in fields from medicine to cellular communications Taken together these articles written by acknowledged experts in the field provide the most complete and in depth accounting of superconductivity in existence The book brings together a wealth of information that would not be available to those who do not have access to the full 24 volume encyclopedia This thorough survey looks at the application of superconductors from an engineer s practical perspective rather than a theoretical approach Engineering Superconductivity provides full coverage of the fundamentals of superconducting behavior and explains the properties and fabrication methods of commercially produced superconductors Up to date material on superconductor applications as well as competing technologies is included The fifty articles presented here are divided into three sections Superconductivity and magnetism Superconductors Applications and related technology Engineering Superconductivity is a complete and up to date reference for engineers physicists chemists materials scientists and anyone working with superconductors      *Maxwell's Demon 2 Entropy, Classical and Quantum Information, Computing* Harvey Leff,Andrew F. Rex,2002-12-13 Over 130 years ago James Clerk Maxwell introduced his hypothetical demon as a challenge to the scope of the second law of thermodynamics Fascination with the demon persisted throughout the development of statistical and quantum physics information theory and computer science and links have been established between Maxwell s demon and each of      Computer Aided Systems Theory - EUROCAST 2019 Roberto Moreno-Díaz,Franz Pichler,Alexis Quesada-Arencibia,2020-04-15 The two volume set LNCS 12013 and 12014 constitutes the thoroughly refereed proceedings of the 17th International Conference on Computer Aided Systems Theory EUROCAST 2019 held in Las Palmas de Gran Canaria Spain in February 2019 The 123 full papers presented were carefully reviewed and selected from 172 submissions The papers are organized in the following topical sections Part I systems theory and applications pioneers and landmarks in the development of information and communication technologies stochastic models and applications to natural social and technical systems theory and applications of metaheuristic algorithms model based system design verification and simulation Part II applications of signal processing technology artificial intelligence and data mining for intelligent transportation systems and smart mobility computer vision machine learning for image analysis and applications computer and systems based methods and electronic technologies in medicine advances in biomedical signal and image processing

systems concepts and methods in touristic flows systems in industrial robotics automation and IoT *JTECH Panel Report on the Japanese Exploratory Research for Advanced Technology (ERATO) Program*, 1988 **Fundamentals and Frontiers of the Josephson Effect** Francesco Tafuri, 2019-09-17 This book provides a comprehensive and up to date description of the Josephson effect a topic of never ending interest in both fundamental and applied physics In this volume world renowned experts present the unique aspects of the physics of the Josephson effect resulting from the use of new materials of hybrid architectures and from the possibility of realizing nanoscale junctions These new experimental capabilities lead to systems where novel coherent phenomena and transport processes emerge All this is of great relevance and impact especially when combined with the didactic approach of the book The reader will benefit from a general and modern view of coherent phenomena in weakly coupled superconductors on a macroscopic scale Topics that have been only recently discussed in specialized papers and in short reviews are described here for the first time and organized in a general framework An important section of the book is also devoted to applications with focus on long term future applications In addition to a significant number of illustrations the book includes numerous tables for comparative studies on technical aspects

Scientific Papers of the Institute of Physical and Chemical Research Rikagaku Kenkyūjo (Japan), 1986 Beginning with v 12 its Abstracts v 1 16 from its Bulletin v 7 22 were issued with the Scientific papers Advances in Superconductivity Koichi Kitazawa, Takehiko Ishiguro, 2013-11-11 Intense recent activity in the field of high temperature superconductivity both in Japan and in the rest of the world was discussed at the First International Symposium on Superconductivity held in Nagoya in August 1988 Current research and development efforts by major Japanese companies in the field of high temperature superconductivity are reported by leading company scientists to give an overview of the high level of activity in the area Progress in the development of new materials and recent theoretical work is reported both from Japanese and international researchers Contributions are organized by topic with such topics as crystal chemistry and electronic structure processing and microstructure tapes and thick films wires and coils and thin film processing and properties Future applications of superconductivity including magnetic levitation vehicles electronics based on Josephson junctions power delivery energy storage ship propulsion and magnetic resonance imaging are particularly stressed *Scientific Information Bulletin*, 1992

*Official Gazette of the United States Patent and Trademark Office*, 1993 **100 Years of Superconductivity** Horst Rogalla, Peter H. Kes, 2011-11-11 Even a hundred years after its discovery superconductivity continues to bring us new surprises from superconducting magnets used in MRI to quantum detectors in electronics 100 Years of Superconductivity presents a comprehensive collection of topics on nearly all the subdisciplines of superconductivity Tracing the historical developments in supe

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