

Circuit Ideas Ultrasonic Transmitter And Receiver (book)

Ying-Ying Zheng

The Ultimate Book of Saturday Science Neil A. Downie. 2012-05-13 The best backyard experiments for hands-on science learning The Ultimate Book of Saturday Science is Neil Downie's biggest and most astounding compendium yet of science experiments you can do in your own kitchen or backyard using common household items. It may be the only book that encourages hands-on science learning through the use of high-velocity, air-driven carrots. Downie, the undisputed maestro of Saturday science, here reveals important principles in physics, engineering, and chemistry through such marvels as the Helevator—a contraption that's half helicopter, half elevator—and the Rocket Railroad, which pumps propellant up from its own track. The Riddle of the Sands demonstrates why some granular materials form steep cones when poured while others collapse in an avalanche. The Sunbeam Exploder creates a combustible delivery system out of sunlight, while the Red Hot Memory experiment shows you how to store data as heat. Want to learn to tell time using a knife and some butter? There's a whole section devoted to exotic clocks and oscillators that teaches you how. The Ultimate Book of Saturday Science features more than seventy fun and astonishing experiments that range in difficulty from simple to more challenging. All of them are original, and all are guaranteed to work. Downie provides instructions for each one and explains the underlying science, and also presents experimental variations that readers will want to try.

System Architecture and Integration Euromicro. Conference. 1994 Euromicro 94 has the theme System Architecture and Integration. The proceedings contain two keynote speeches (The Design of Fault-Tolerant Real-Time Systems by H. Kopetz, and A Theory of Engineering Design by C.A.R. Hoare) and 87 technical papers in sessions including design and optimization, database retrieval techniques, mapping to parallel systems, VLSI high-level synthesis, object-oriented techniques, VLSI testing and testability, special architectures, protocols, tools for VLSI design, specification and design, dedicated devices, expert and knowledge-based systems, parallel architectures, application of mathematical models, using distributed systems, neural nets, FSM synthesis, and fault tolerance in parallel systems. No index. Annotation copyright by Book News, Inc., Portland, OR.

Handbook of Research on Using Educational Robotics to Facilitate Student Learning Papadakis,

Stamatios, Kalogiannakis, Michail. 2020-12-05 Over the last few years, increasing attention has been focused on the development of children's acquisition of 21st-century skills and digital competences. Consequently, many education scholars have argued that teaching technology to young children is vital in keeping up with 21st-century employment patterns. Technologies, such as those that involve robotics or coding apps, come at a time when the demand for computing jobs around the globe is at an all-time high while its supply is at an all-time low. There is no doubt that coding with robotics is a wonderful tool for learners of all ages as it provides a catalyst to introduce them to computational thinking, algorithmic thinking, and project management. Additionally, recent studies argue that the use of a developmentally appropriate robotics curriculum can help to change negative stereotypes and ideas children may initially have about technology and engineering. The Handbook of Research on Using Educational Robotics to Facilitate Student Learning is an edited book that advocates for a new approach to computational thinking and computing education with the use of educational robotics and coding apps. The book argues that while learning about computing, young people should also have opportunities to create with computing, which have a direct impact on their lives and their communities. It develops two key dimensions for understanding and developing educational experiences that support students in engaging in computational action: (1) computational identity, which shows the importance of young people's development of scientific identity for future STEM growth; and (2) digital empowerment to instill the belief that they can put their computational identity into action in authentic and meaningful ways. Covering subthemes including student competency and assessment, programming education, and teacher and mentor development, this book is ideal for teachers, instructional designers, educational technology developers, school administrators, academicians, researchers, and students.

Wireless World .1983

Electronics Owen Bishop. 2010-12-30 Owen Bishop's First Course starts with the basics of electricity and component types, introducing students to practical work almost straight away. No prior knowledge of electronics is required. The approach is student-centred with self-test features to check understanding, including numerous activities suitable for practicals, homework and other assignments. Multiple choice questions are incorporated throughout the text in order to aid student learning. Key facts, formulae and definitions are highlighted to aid revision, and theory is backed up by numerous examples within the book. Each chapter ends with a set of problems that includes exam-style questions, for which numerical answers are provided at the end of the book. This text is ideal for a wide range of introductory courses in electronics, technology, physics and engineering. The coverage has been carefully matched to the latest UK syllabuses including GCSE Electronics, GCSE Design & Technology, Engineering GCSE and Edexcel's BTEC First in Engineering, resulting in a text that meets the needs of students on all Level 2 electronics units and courses. Owen Bishop's talent for introducing the world of electronics has long been a proven fact with his textbooks, professional introductions and popular circuit construction guides

being chosen by thousands of students, lecturers and electronics enthusiasts.

Introduction to Microwave Circuits Robert J. Weber.2001-01-23 Do you want to design a wireless transmitter or receiver for hand-held telephones? Have you wondered why the printed circuit wires on high-frequency circuits don't always run in a straight line? This valuable text will answer all of your questions regarding component parasitics and circuit characterization for rf/microwave amplifier, oscillator, and filter circuit design and analysis. You will understand why capacitors act as inductors and vice versa and why amplifiers work like oscillators, while oscillators for local area networks work more like local area heaters. Application of the information in *Introduction to Microwave Circuits* will reduce design-cycle time and costs, markedly increasing the probability of first-time success in printed circuit or monolithic microwave integrated circuit (MMIC) design. Several approaches are taken into consideration, such as the effects of currents on the ground plane, bypass and coupling capacitors, and nonlinear effects in linear circuits. Featured topics include: * Incorporation of component parasitics in the design cycle * Closed form solution to oscillator design * Odd mode stability analysis * PIN diode analysis for high-power switching applications An integrated design example of a 1.25 GHz amplifier, oscillator, and filter printed circuit is also included, which could be useful in printed circuit board designs from tens of megahertz to tens of gigahertz. *Introduction to Microwave Circuits* provides the tools necessary to analyze or synthesize microwave circuits. This text is an essential reference for undergraduate students, microwave engineers, and administrators. Also, it will assist experienced designers in other fields to meet the current rapid expansion of communication system applications and work effectively in microwave circuit design. About the Author Robert J. Weber began his prolific career in the Solid State Research Laboratory at the Collins Radio Company, later a part of Rockwell International. For 25 years, he worked on advanced development and applied research in the one- to ten-gigahertz frequency range and received several distinguished awards for his valuable contributions to the field. Dr. Weber is involved in ongoing experimental research in integrating microwave circuits with other devices such as MEMS, chemical sensors, and electro-optics. Also, he teaches microwave circuit design and fiber-optics communications at the Department of Electrical and Computer Engineering, Iowa State University. Dr. Weber is an IEEE Fellow. Sponsored by: IEEE Microwave Theory and Techniques Society.

Handbook of Research on Integrating ICTs in STEAM Education Xefteris, Stefanos.2022-05-27 Modern society gives great importance to scientific and technological literacy, development of “21st century skills,” and creating individuals who are not passive users of ICT tools but active thinkers and even tinkerers. The learning process is thus constantly evolving to facilitate the acquisition of such skills, such as setting goals and making evidence-based decisions, thinking critically, and solving problems while efficiently managing time as well as using technology, cooperating ethically, and communicating effectively. STEAM is the approach to learning that uses concepts from natural sciences, technology, engineering, arts, and mathematics to foster critical thinking, computational and design thinking, as well working effectively together, mimicking

the process followed by scientists. The end goal is engaged and motivated students who participate in experiential and inquiry-based learning in fun, immersive environments that facilitate learning through a creative process. The Handbook of Research on Integrating ICTs in STEAM Education includes current research focusing on the development of STEAM and ICT educational practices, tools, workflows, and frames of operation that encourage science skills, but also skills related to the arts and humanities such as creativity, imagination, and reflection on ethical implications. Covering topics such as early childhood education, machine learning education, educational robotics, and web-based simulations, this major reference work is an essential resource for engineers, educators of both K-12 and higher education, education administration, libraries, pre-service teachers, computer scientists, researchers, and academics.

Ciarcia's Circuit Cellar Steve Ciarcia.1981 Discusses Uses for the Microcomputer, Including Projects & Methods for Interfacing the Personal Computer with Its Environment

Medical Imaging Troy Farncombe,Kris Iniewski.2017-12-19 The book has two intentions. First, it assembles the latest research in the field of medical imaging technology in one place. Detailed descriptions of current state-of-the-art medical imaging systems (comprised of x-ray CT, MRI, ultrasound, and nuclear medicine) and data processing techniques are discussed. Information is provided that will give interested engineers and scientists a solid foundation from which to build with additional resources. Secondly, it exposes the reader to myriad applications that medical imaging technology has enabled.

Ultrasonics Dale Ensminger,Leonard J. Bond.2024-02-21 Updated, revised, and restructured to reflect the latest advances in science and applications, the fourth edition of this best-selling industry and research reference covers the fundamental physical acoustics of ultrasonics and transducers, with a focus on piezoelectric and magnetostrictive modalities. It then discusses the full breadth of ultrasonics applications involving low power (sensing) and high power (processing) for research, industrial, and medical use. This book includes new content covering computer modeling used for acoustic and elastic wave phenomena, including scattering, mode conversion, transmission through layered media, Rayleigh and Lamb waves and flexural plates, modern horn design tools, Langevin transducers, and material characterization. There is more attention on process monitoring and advanced nondestructive testing and evaluation (NDT/NDE), including phased array ultrasound (PAUT), long-range inspection, using guided ultrasonic waves (GUW), internally rotary inspection systems (IRIS), time-of-flight diffraction (TOFD), and acoustic emission (AE). These methods are discussed and applied to both metals and nonmetals using illustrations in various industries, including now additionally for food and beverage products. The topics of defect sizing, capabilities, and limitations, including the probability of detection (POD), are introduced. Three chapters provide a new treatment of high-power ultrasonics, for both fluids and solids, and again, with examples of industrial engineering, food and beverage, pharmaceuticals, petrochemicals, and other process applications. Expanded coverage is

given to medical and biological applications, covering diagnostics, therapy, and, at the highest powers, surgery. Key Features Provides an overview of fundamental analysis and transducer technologies needed to design and develop both measurement and processing systems Considers applications in material characterization and metrology Covers ultrasonic nondestructive testing and evaluation and high-power ultrasonics, which involves interactions that change the state of material Highlights medical and biomedical applications of ultrasound, focusing on the physical acoustics and the technology employed for diagnosis, therapy, surgery, and research This book is intended for both the undergraduate and graduate scientists and engineers, as well as the working professional, who seeks to understand the fundamentals together with a holistic treatment of the field of ultrasonics and its diversity of applications.

EDN .1993

RF Transmission and Micropower Filtering Circuits for Implantable Ultrasonic Blood Flow Telemetry Stanford University. Stanford Electronics Laboratories. Integrated Circuits Laboratory, Ali Fotowat-Ahmady. 1991

Handbook of Modern Sensors Jacob Fraden. 2015-10-15 This book presents a comprehensive and up-to-date account of the theory (physical principles), design, and practical implementations of various sensors for scientific, industrial, and consumer applications. This latest edition focuses on the sensing technologies driven by the expanding use of sensors in mobile devices. These new miniature sensors will be described, with an emphasis on smart sensors which have embedded processing systems. The chapter on chemical sensors has also been expanded to present the latest developments. Digital systems, however complex and intelligent they may be, must receive information from the outside world that is generally analog and not electrical. Sensors are interface devices between various physical values and the electronic circuits that understand only a language of moving electrical charges. In other words, sensors are the eyes, ears, and noses of silicon chips. Unlike other books on sensors, the Handbook of Modern Sensors is organized according to the measured variables (temperature, pressure, position, etc.). This book is a reference text for students, researchers interested in modern instrumentation (applied physicists and engineers), sensor designers, application engineers and technicians whose job it is to understand, select and/or design sensors for practical systems.

Electronics .1974 June issues, 1941-44 and Nov. issue, 1945, include a buyers' guide section.

Design and Performance of an Ultrasonic Phased Array Transducer Usman Saeed. 1978

International Conference on Sensors and Control Techniques (ICSC 2000) Desheng Jiang, Anbo Wang. 2000 This volume contains the proceedings of the International Conference on Sensors and Control Techniques, held in Wuhan, China, on 19-21 June 2000.

Robotic Explorations Fred G. Martin. 2001 This hands-on, introductory book is based on widely available, custom robotics materials (Handy Board, Interactive C, LEGO Technic). Covers sensors; motors, gears, and mechanism; control; handy board

design; construction techniques; DC Motor; and more. Ideal as an introduction to electrical engineering or capstone design. Also appropriate for readers interested in electrical technology robotics.

Engineering Systems with Intelligence S.G. Tzafestas.2012-12-06 This book contains a selection of papers presented at the European Robotics and Intelligent Systems Conference (EURISCON '91) held in Corfu, Greece (June 23-28, 1991). It is devoted to the analysis, design and applications of technological systems with built-in intelligence achieved through appropriate blending of mathematical, symbolic, sensing, computer processing, and feedback control concepts, methods and software / hardware tools. System intelligence includes human-like capabilities such as learning, observation, perception, interpretation, reasoning, planning, decision making, and action. Integrated intelligent decision and control systems obey Saridis' principle of Increasing Precision with Decreasing Intelligence (IPDI), and have a hierarchical structure with three basic levels, namely Organization, Coordination, and Execution Levels. As we proceed from the organization to the execution level, the precision about the jobs to be completed increases and accordingly the intelligence required for these jobs decreases. As an example, it is mentioned here that in an intelligent robotic system the organization tasks can be realized using a neural net, the coordination tasks by a Petri net, and the execution tasks by local sensors and actuators. The field of intelligent systems is a new interdisciplinary field with continuously increasing interest and expansion. It is actually the outcome of the synergetic interaction and cooperation of classical fields such as system theory, control theory, artificial intelligence, operational research, information theory, electronics, communications, and others.

Electronics Projects Vol. 15 EFY Enterprises Pvt Ltd.2009-11

Science and Technology of Ultrasonics Baldev Raj, V. Rajendran, P. Palanichamy.2004 This work covers the basics for an understanding of ultrasonics and its potential applications in important fields of science and technology. Transducers and Instrumentation are dealt in individual chapters due to their prime importance in ultrasonic applications. Topics covered are applications of ultrasound science and technology for materials characterization, NDT, underwater acoustics, medical ultrasound, and molecular interaction.

Selected Topics in Biomedical Circuits and Systems Minkyu Je, Myung Hoon Sunwoo.2022-09-01 Integrated circuits and microsystems play a vital role in a variety of biomedical applications including life-saving/changing miniature medical devices, surgical procedures with less invasiveness and morbidity, low-cost preventive healthcare solutions for daily life, solutions for effective chronic disease management, point-of-care diagnosis for early disease detection, high-throughput bio sequencing and drug screening and groundbreaking brain-machine interfaces based on a deep understanding of human intelligence. In response to such strong demands for biomedical circuits and systems, a considerable amount of effort has been devoted to the research and development in this area, both by industry and academia, over recent years. This book, which belongs to the "Tutorials in Circuits and Systems" series, provides readers with an overview of new developments in

the field of biomedical circuits and systems. It covers basic information about system-level and circuit-level requirements, operation principles, key factors of considerations, and design/implementation techniques, as well as recent advances in integrated circuits and microsystems for emerging biomedical applications. Technical topics covered in this book include: □ Biomedical Microsystem Integration; □ Biomedical Sensor Interface Circuits; □ Neural Stimulation Circuits; □ Wireless Power Transfer Circuits for Biomedical Microsystems; □ Artificial Intelligence Processors for Biomedical Circuits and Systems; □ Neuro-Inspired Computing and Neuromorphic Processors for Biomedical Circuits and Systems. This book is ideal for personnel in medical devices and biomedical engineering industries as well as academic staff and postgraduate/research students in biomedical circuits and systems.

Understanding the Prediction Gap in Multi-hop Localization Cameron Dean Whitehouse.2006

Official Gazette of the United States Patent and Trademark Office United States. Patent and Trademark Office.2000

Alarms Charles D. Rakes.1988

4th International Workshop on Wearable and Implantable Body Sensor Networks (BSN 2007) Steffen

Leonhardt,Thomas Falck,Petri Mähönen.2007-05-04 This book contains papers from the International Workshop on Wearable and Implantable Body Sensor Networks, BSN 2007, held in March 2007 at the University Hospital Aachen, Germany. Topics covered in the volume include new medical measurements, smart bio-sensing textiles, low-power wireless networking, system integration, medical signal processing, multi-sensor data fusion, and on-going standardization activities.

Basic Physics in Diagnostic Ultrasound Joseph L. Rose,Barry B. Goldberg.1979

Advanced Topics in Characterization of Composites Michael R. Kessler.2004 Advanced Topics in Characterization of Composites is a product of the "Characterization of Composite Materials graduate course in the Department of Mechanical Engineering at The University of Tulsa. It contains a series of chapters describing characterization techniques for polymer-matrix composite materials. Topics covered include: -thermal analysis using DSC, -residual stresses, -single-fiber fragmentation testing, -creep and creep nature, -impact testing, -infrared thermography, -air-coupled ultrasonics, -structural health monitoring, and -fractography. The chapters include comprehensive literature reviews, background information, and best practices in experimental composites evaluation.

Catalog of Training U.S. Fish and Wildlife Service.

Microwave and Millimeter Wave Circuits and Systems Apostolos Georgiadis,Hendrik Rogier,Luca Roselli,Paolo Arcioni.2012-09-17 Microwave and Millimeter Wave Circuits and Systems: Emerging Design, Technologies and Applications provides a wide spectrum of current trends in the design of microwave and millimeter wave circuits and systems. In addition, the book identifies the state-of-the art challenges in microwave and millimeter wave circuits systems design such as behavioral modeling of circuit components, software radio and digitally enhanced front-ends, new and promising technologies such as

substrate-integrated-waveguide(SIW) and wearable electronic systems, and emerging applications such as tracking of moving targets using ultra-wideband radar, and new generation satellite navigation systems. Each chapter treats a selected problem and challenge within the field of Microwave and Millimeter wave circuits, and contains case studies and examples where appropriate. Key Features: Discusses modeling and design strategies for new appealing applications in the domain of microwave and millimeter wave circuits and systems Written by experts active in the Microwave and Millimeter Wave frequency range (industry and academia) Addresses modeling/design/applications both from the circuit as from the system perspective Covers the latest innovations in the respective fields Each chapter treats a selected problem and challenge within the field of Microwave and Millimeter wave circuits, and contains case studies and examples where appropriate This book serves as an excellent reference for engineers, researchers, research project managers and engineers working in R&D, professors, and post-graduates studying related courses. It will also be of interest to professionals working in product development and PhD students.

Electronic Design .1983

Report .2004

Scientific and Technical Aerospace Reports .1991

Advanced Measurement and Test X Yanwen Wu.2010-06-07 This special collection on Advanced Measurement and Test is dedicated to the electronic testing of devices, boards and systems and covers the complete cycle: from design verification, design-for-testing, design-for-manufacturing, silicon debug, manufacturing test, system test, diagnosis, failure analysis and back to process and design improvement. Design, testing and yield professionals were invited to confront the challenges which the industry faces, and to learn how these challenges are being addressed by the combined efforts of academia, design tool and equipment suppliers, designers and test engineers.

Handbook on Nondestructive Testing of Concrete V. M. Malhotra, Nicholas J. Carino.2004 Civil engineers will value this resource that examines the tools and techniques used to estimate the in-place strength on concrete, permeation properties that relate to potential durability, and the methods used to assess the internal condition of concrete and the corrosion activity of steel reinforcement.

The Ultimate Guide to Informed Wearable Technology Christine Farion.2022-10-31 Master wearable technology with this book including colored images and over 50 activities using Arduino and ESP32, build useful, stylish, and smart wearable devices, and create interactive circuits that react to us and our environment Key Features Learn wearable technology and build electronic circuits with fun activities using Arduino systems Get an in-depth understanding of e-textiles and ESP32 microcontrollers to create interactive wearables Apply a design innovation approach and best practices to address real-world issues Book Description Wearable circuits add interaction and purpose to clothing and other wearable

devices that are currently widely used in medical, social, safety, entertainment, and sports fields. To develop useful and impressive prototypes and wearables, you'll need to be skilled in designing electronic circuits and working with wearable technologies. This book takes you on an interesting journey through wearable technology, starting from electronic circuits, materials, and e-textile toolkits to using Arduino, which includes a variety of sensors, outputs, actuators, and microcontrollers such as Gemma M0 and ESP32. As you progress, you'll be carefully guided through creating an advanced IoT project. You'll learn by doing and create wearables with the help of practical examples and exercises. Later chapters will show you how to develop a hyper-body wearable and solder and sew circuits. Finally, you'll discover how to build a culture-driven wearable to track data and provide feedback using a Design Innovation approach. After reading this book, you'll be able to design interactive prototypes and sew, solder, and program your own Arduino-based wearable devices with a purpose. What you will learn Construct sewable electronic circuits with conductive thread and materials Discover the features of LilyPad, Gemma, Circuit Playground, and other boards Use various components for listening, moving, sensing actions, and visualizing outputs Control ESP32 development boards for IoT exploration Understand why and how to prototype to create interactive wearables Get skilled in sewing and soldering sensors to Arduino-based circuits Design and build a hyper-body wearable that senses and reacts Master a Design Innovation approach for creating wearables with a purpose Who this book is for This book is for electronics engineers, embedded system engineers and designers, and R&D engineers, who are beginners in the wearable technology domain as well as makers and hobbyists who have an interest in creative computing. It will also be useful for teachers, students, and researchers, who are learning interaction design, physical computing, technology, fashion, or arts. Having a basic understanding of Arduino-based systems will help in easily comprehending the contents of the book.

Education and Technology in Sciences Klinge Orlando Villalba-Condori, Agustín Aduríz-Bravo, Jari Lavonen, Lung-Hsiang Wong, Tzu-Hua Wang. 2020-04-08 This book constitutes the refereed proceedings of the First International Congress on Education and Technology in Sciences, CISETC 2019, held in Arequipa, Peru, in December 2019. The 12 full papers presented in the volume were carefully reviewed and selected from 96 submissions. The papers are focused on the two main topics: pedagogical practice in the sciences, focused specifically on science education; and complementary aspects of science teaching, which considers all the elements that can contribute to science education.

Reference for Modern Instrumentation, Techniques, and Technology: Ultrasonic Instruments and Devices II .1998-10-21 While research on ultrasonics has been covered in earlier volumes of the Physical Acoustics series, Volumes 23 and 24 demonstrate the successful commercialization of devices and instruments arising from research in this area. These volumes will assist in the process of bringing research output into the marketplace to the benefit of customers. The chapters are liberally illustrated with pictures of actual commercial objects which have been or are in use. Included are Medical Ultrasonic Diagnostics, Nondestructive Testing (NDT), Acoustic Emission, Process Control, Surface Acoustic Wave (SAW)

Devices, Frequency Control Devices, Research Instruments, Transducers, and Ultrasonic Microscopes. Also contained in the text are six essays covering technology transfer and commercialization.

Advances in Mechanical and Electronic Engineering David Jin, Sally Lin. 2012-07-25 This book includes the volume 3 of the proceedings of the 2012 International Conference on Mechanical and Electronic Engineering (ICMEE2012), held at June 23-24, 2012 in Hefei, China. The conference provided a rare opportunity to bring together worldwide researchers who are working in the fields. This volume 3 is focusing on Electronic Engineering and Electronic Communication; Electronic Engineering and Electronic Image Processing.

Official Gazette of the United States Patent and Trademark Office .2000

Ultrasonic Transducer Materials Oskar E. Mattiat. 1971

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Circuit Ideas Ultrasonic Transmitter And Receiver Introduction

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personal growth and professional development. This democratization of knowledge promotes intellectual curiosity and empowers individuals to become lifelong learners, promoting progress and innovation in various fields. It is worth noting that while accessing free Circuit Ideas Ultrasonic Transmitter And Receiver PDF books and manuals is convenient and cost-effective, it is vital to respect copyright laws and intellectual property rights. Platforms offering free downloads often operate within legal boundaries, ensuring that the materials they provide are either in the public domain or authorized for distribution. By adhering to copyright laws, users can enjoy the benefits of free access to knowledge while supporting the authors and publishers who make these resources available. In conclusion, the availability of Circuit Ideas Ultrasonic Transmitter And Receiver free PDF books and manuals for download has revolutionized the way we access and consume knowledge. With just a few clicks, individuals can explore a vast collection of resources across different disciplines, all free of charge. This accessibility empowers individuals to become lifelong learners, contributing to personal growth, professional development, and the advancement of society as a whole. So why not unlock a world of knowledge today? Start exploring the vast sea of free PDF books and manuals waiting to be discovered right at your fingertips.

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