

Electronic Devices 9th Edition By Floyd Solution

Foundations of Wireless and Electronics, 10th Edition covers the cathode-ray and microwave tubes; modern pulse methods; f.m. detectors; basic processes of transmission; and reception, computers, and non-sinusoidal signal amplification. The book starts by giving a general overview of a complete electronic system, electricity and circuits, capacitance, and inductance. The text also discusses alternating currents (a.c.), including the frequency and phase of a.c.; the capacitance and inductance in a.c. circuits; and the capacitance and inductance in a series. Diodes, triode, transistor equivalent circuits, and a suitable working point are also considered. The book describes oscillation, transmission lines, radiation and antennas, and audio-frequency amplification. The super heterodyne principle, radio- and intermediate-frequency amplification, electronic waveform generators, and switches are also encompassed. The text will be useful to electronics engineers, electricians, and computer engineers. This book describes a full range of contemporary techniques for the design of transmitters and receivers for communications systems operating in the range from 1 through to 300 GHz. In this frequency range there is a wide range of technologies that need to be employed, with silicon ICs at the core but, compared with other electronics systems, a much greater use of more specialist devices and components for high performance

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– for example, high Q-factor/low loss and good power efficiency. Many text books do, of course, cover these topics but what makes this book timely is the rapid adoption of millimetre-waves (frequencies from 30 to 300 GHz) for a wide range of consumer applications such as wireless high definition TV, “5G” Gigabit mobile internet systems and automotive radars. It has taken many years to develop low-cost technologies for suitable transmitters and receivers, so previously these frequencies have been employed only in expensive military and space applications. The book will cover these modern technologies, with the follow topics covered; transmitters and receivers, lumped element filters, transmission lines and S-parameters, RF MEMS, RFICs and MMICs, and many others. In addition, the book includes extensive line diagrams to illustrate circuit diagrams and block diagrams of systems, including diagrams and photographs showing how circuits are implemented practically. Furthermore, case studies are also included to explain the salient features of a range of important wireless communications systems. The book is accompanied with suitable design examples and exercises based on the Advanced Design System – the industry leading CAD tool for wireless design. More importantly, the authors have been working with Keysight Technologies on a learning & teaching initiative which is designed to promote access to industry-standard EDA tools such as ADS. Through its University Educational Support Program, Keysight offers students the opportunity to request a student license, backed up with extensive classroom materials and support resources.

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This culminates with students having the chance to demonstrate their RF/MW design and measurement expertise through the Keysight RF & Microwave Industry-Ready Student Certification Program.

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Basic Electronics, meant for the core science and technology courses in engineering colleges and universities, has been designed with the key objective of enhancing the students' knowledge in the field of electronics. Solid state electronics, a rapidly-evolving field of study, has been extensively researched for the latest updates, and the authors have supplemented the related chapters with customized pedagogical features. The required knowledge in mathematics has been developed throughout the book and no prior grasp of physical electronics has been assumed as an essential requirement for understanding the subject. Detailed mathematical derivations illustrated by solved examples enhance the understanding of the theoretical concepts. With its simple language and clear-cut style of presentation, this book presents an intelligent understanding of a complex subject like electronics. For courses in Basic Electronics and Electronic Devices and Circuits. Electronic Devices (ELECTRON FLOW VERSION), Ninth Edition, provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-color photos and

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illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the ninth edition features new GreenTech Applications and a new chapter, "Basic Programming Concepts for Automated Testing."

The classical approach to analog circuit analysis is a daunting prospect to many students, requiring tedious enumeration of contributing factors and lengthy calculations. Most textbooks apply this cumbersome approach to small-signal amplifiers, which becomes even more difficult as the number of components increases. *Analysis of Bipolar and CMOS Amplifiers* offers students an alternative that enables quick and intuitive analysis and design: the analysis-by-inspection method. This practical and student-friendly text demonstrates how to achieve approximate results that fall within an acceptable range of accuracy and are based on sound scientific principles. Working from the basics of amplifiers and transistors to biasing, single- and multistage amplifiers, current sources and mirrors, and analysis at midband, low, and high frequencies, the author demonstrates the interrelationship between behavior in both the time and frequency domains and balances the discussion between bipolar and CMOS circuits. Each chapter closes with a set of simulation examples in SPICE and MATLAB® that give students hands-on experience applying the concepts and methods using industry-standard tools. Building a practical working knowledge around a solid theoretical framework, *Analysis of Bipolar and CMOS Amplifiers* prepares your students to meet

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the challenges of quick and accurate approximations and software-based analysis awaiting them in the workplace. This book contains some special features to aid you on your path to learn about fundamental concepts of computer and later programming with C in easy way. Each chapter provides concrete examples and explanation of concepts. You will get knowledge of new concepts like grid computers, storage area network, Bluetooth, etc. Numerous sample programs illustrate C's features and concepts so that you can apply them in your computer lab with ease. Each chapter ends with section containing common questions relating to the chapter with reference to older year questions asked in university exams. It contains objective questions and exercises that tests your knowledge of the concepts and helps you prepare for aptitude test conducted by various software companies at the time of recruitment. -- Electronic Devices (CONVENTIONAL CURRENT VERSION) , Ninth Edition, provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-color photos and illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the ninth edition features new GreenTech Applications and a new chapter, "Basic Programming Concepts for Automated Testing."

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resistance and Schottky barriers -- Series resistance, channel length and width, and threshold voltage -- Defects -- Oxide and interface trapped charges, oxide thickness -- Carrier lifetimes -- Mobility -- Charge-based and probe characterization -- Optical characterization -- Chemical and physical characterization -- Reliability and failure analysis.

For courses in basic electronics and electronic devices and circuits *Electronic Devices*, 10th Edition, provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-colour photos and illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the 10th Edition features selected circuits keyed to Multisim V14 and LT Spice files so that students learn how to simulate, analyse, and troubleshoot using the latest circuit simulation software. *Digital Electronics: A Practical Approach with VHDL*, Ninth Edition, offers students an easy-to-learn-from resource that emphasizes practical application of circuit design, operation, and troubleshooting. Over 1,000 annotated color figures help explain circuit operation or emphasize critical components and input/output criteria. Throughout the text, the author employs a step-by-step approach that takes students from theory to example to application of the concepts. Over all nine editions, Kleitz has consistently sought out student feedback, along with

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his own experience of teaching the course in-class and on-line, to improve each new edition.

This renowned book offers a comprehensive yet practical exploration of basic electrical and electronic concepts, hands-on applications, and troubleshooting. Written in a clear and accessible narrative, the Seventh Edition focuses on fundamental principles and their applications to solving real circuit analysis problems, and devotes six chapters to examining electronic devices . Some key features include: "Symptom/Cause" problems, and exercises on Multisim circuits available at www.pearsonhighered.com/floyd Key terms glossary--Furnished at the end of each chapter. Vivid illustrations. Numerous examples in each chapter--Illustrate major concepts, theorems, and methods. This is a perfect reference for professionals with a career in electronics, engineering, technical sales, field service, industrial manufacturing, service shop repair, and/or technical writing.

This book brings together seven selected best papers presented at the 2014 Russia–Japan–USA Symposium on Fundamental and Applied Problems of Terahertz Devices and Technologies (RJUS TeraTech-2014), which was held at the University of Buffalo, New York, USA on 17–21 June 2014. As the third in the series of annual meetings, RJUS TeraTech-2014 continues to be an excellent platform for researchers to exchange their recent original results, and to deal with the technical challenges and barriers of transitioning the research results into the THz system-level applications. The symposium focuses on 2 main areas, namely, interaction

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of THz radiation with micro- and nano-structures, and advanced solid-state THz emitters and sensors. Leading experts from academia, industry, and government agencies from three countries, including USA, Japan, and Russia, contributed to the collection of research results and developments. This book, covering issues ranging from basic THz-related phenomena to applications in sensing, imaging, and communications, contains some ground-breaking works in the industry, and will be a useful reference for device and electronics engineers and scientists. Contents: Terahertz Sensing Technology (M Shur) Detection of Terahertz Radiation by Dense Arrays of InGaAs Transistors (D M Yermolayev, E A Polushkin, S Yu Shapoval, V V Popov, K V Maremyanin, V I Gavrilenko, N A Maleev, V M Ustinov, V E Zemlyakov, V I Yegorkin, V A Bespalov, A V Muravjov, S L Rumyantsev and M S Shur) Investigation and Fabrication of the Semiconductor Devices Based on Metamorphic InAlAs/InGaAs/InAlAs Nanoheterostructures for THz Applications (D V Lavrukhin, A E Yachmenev, R R Galiev, A S Bugaev, Y V Fedorov, R A Khabibullin, D S Ponomarev and P P Maltsev) Peculiarity of Terahertz Waves Scattering (I N Dolganova, S O Yurchenko, V E Karasik and V P Budak) Rashba Effect and Beating Patterns in the THz Magneto-Photoresponse of a HgTe-Based Two-Dimensional Electron Gas (M Pakmehr, C Brüne, H Buhmann, L W Molenkamp and B D McCombe) Characterization of High Mobility InAlAs/InGaAs/InAlAs Composite Channels by THz Magneto-Photoresponse Spectroscopy (M Pakmehr, B D

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McCombe, O Chiatti, S F Fischer, Ch Heyn and W Hansen) Quantum Dot Solar Cells with Nanoscale Barriers Around Dots: Experiment and Two-Diode Model Analysis (Y Li, A Sergeev, N Vagidov, V Mitin and K Sablon) Readership: Scientists, engineers and researchers interested in terahertz materials, devices, systems and applications, as well as graduate students working on terahertz science and technology.

Keywords: Terahertz Devices and Technologies; Terahertz Radiation; Micro-and Nanostructures; Emitters and Sensors

Want to know how to use an electronic component? This first book of a three-volume set includes key information on electronics parts for your projects—complete with photographs, schematics, and diagrams. You'll learn what each one does, how it works, why it's useful, and what variants exist. No matter how much you know about electronics, you'll find fascinating details you've never come across before. Convenient, concise, well-organized, and precise Perfect for teachers, hobbyists, engineers, and students of all ages, this reference puts reliable, fact-checked information right at your fingertips—whether you're refreshing your memory or exploring a component for the first time. Beginners will quickly grasp important concepts, and more experienced users will find the specific details their projects require. Unique: the first and only encyclopedia set on electronic components, distilled into three separate volumes Incredibly detailed: includes information distilled from hundreds of sources Easy to browse: parts are clearly organized by component type Authoritative: fact-checked

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by expert advisors to ensure that the information is both current and accurate Reliable: a more consistent source of information than online sources, product datasheets, and manufacturer's tutorials Instructive: each component description provides details about substitutions, common problems, and workarounds Comprehensive: Volume 1 covers power, electromagnetism, and discrete semi-conductors; Volume 2 includes integrated circuits, and light and sound sources; Volume 3 covers a range of sensing devices.

For courses in Basic Electronics and Electronic Devices and Circuits. **Electronic Devices (CONVENTIONAL CURRENT VERSION)** , Ninth Edition, provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-color photos and illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the ninth edition features new GreenTech Applications and a new chapter, "Basic Programming Concepts for Automated Testing."

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Updated throughout, the ninth edition features new GreenTech Applications and a new chapter, "Basic Programming Concepts for Automated Testing."

In this newly updated, ninth edition of the best-selling photography book—in print since 1999—Ben Long guides you through the creative and challenging world of digital photography. Complete Digital Photography 9 has everything you need to know to create great photos: from how to master your camera, to learning about composition, lighting, image editing, workflow and output. Ben also includes a number of shooting exercises in the front part of the book to help you get comfortable with photographic techniques, and there are extensive step-by-step tutorials designed to help you master image editing in Adobe Lightroom, Photoshop and other apps. With Ben's easy-going, comprehensive teaching style, you'll be amazed at the results you get from Complete Digital Photography.

Designed specifically for undergraduate students of Electronics and Electrical Engineering and its related disciplines, this book offers an excellent coverage of all essential topics and provides a solid foundation for analysing electronic circuits. It covers the course

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named Electronic Devices and Circuits of various universities. The book will also be useful to diploma students, AMIE students, and those pursuing courses in B.Sc. (Electronics) and M.Sc. (Physics). The students are thoroughly introduced to the full spectrum of fundamental topics beginning with the theory of semiconductors and p-n junction behaviour. The devices treated include diodes, transistors—BJTs, JFETs and MOSFETs—and thyristors. The circuitry covered comprises small signal (ac), power amplifiers, oscillators, and operational amplifiers including many important applications of those versatile devices. A separate chapter on IC fabrication technology is provided to give an idea of the technologies being used in this area. There are a variety of solved examples and applications for conceptual understanding. Problems at the end of each chapter are provided to test, reinforce and enhance learning.

Discovery Practice, Ninth Edition gives you hard-nosed, trial-tested guidance through all the intricacies of what to do, whether to do it, and how to do it -- at every stage of the discovery process. Turn to this trusted guide for thorough, up-to-date clarification of:

- Insurance discoverability
- Discovery abuse -- its penalties and sanctions
- Confidentiality and discovery of trade secrets
- Use of experts
- Use of investigation files
- Use of witness statements
- Protective orders
- Invoking Rule 29 powers
- Tapes

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and telephones depositions Using the Manual for Complex Litigation Foreign discovery Discovery in administrative hearings Discovery in arbitration. Plus detailed coverage of such cutting edge areas as e-mail depositions and FOIA proceedings. Appendices include ready to adapt sample forms. Now, with all the practice tips and valuable strategies packed into Discovery Practice, you can Facilitate early and thorough disclosure of information Quickly determine a core of undisputed facts Intensively promote and pursue a negotiated settlement. Discovery Practice, Ninth Edition gives you hard-nosed, trial-tested guidance through all the intricacies of what to do, whet

Both a handbook for practitioners and a text for use in teaching electronic packaging concepts, guidelines, and techniques. The treatment begins with an overview of the electronics design process and proceeds to examine the levels of electronic packaging and the fundamental issues in the development

Electronic Devices Conventional Current
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This streamlined review gets you solving problems quickly to measure your readiness for the PE exam. The text provides detailed solutions to problems with pointers to references for further study if needed, as well as brief coverage of the concepts and applications covered on the exam. For busy

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professionals, *Electrical Engineering: A Referenced Review* is an ideal concise review. Book jacket.

This text provides optional computer analysis exercises in selected examples, troubleshooting sections, & applications assignments. It uses frank explanations & limits maths to only what's needed for understanding electric circuits fundamentals.

Electronic Devices and Circuit Theory, Eleventh Edition, offers a complete, comprehensive survey, focusing on all the essentials you will need to succeed on the job.

Setting the standard for nearly 30 years, this highly accurate text is supported by strong pedagogy and content that is ideal for new students of this rapidly changing field. The colorful layout with ample photographs and examples helps you better understand important topics. This text is an excellent reference work for anyone involved with electronic devices and other circuitry applications, such as electrical and technical engineers.

GaAs devices and integrated circuits have emerged as leading contenders for ultra-high-speed applications.

This book is intended to be a reference for a rapidly growing GaAs community of researchers and graduate students. It was written over several years and parts of it were used for courses on GaAs devices and integrated circuits and on heterojunction GaAs devices developed and taught at the University of Minnesota. Many people helped me in writing this book. I would like to express my deep gratitude to Professor Lester Eastman of Cornell University, whose ideas and thoughts inspired me and helped to determine the direction of my research work for

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many years. I also benefited from numerous discussions with his students and associates and from the very atmosphere of the pursuit of excellence which exists in his group. I would like to thank my former and present co-workers and colleagues-Drs. Levinstein and Gelmont of the A. F. Ioffe Institute of Physics and Technology, Professor Melvin Shaw of Wayne State University, Dr. Kastalsky of Bell Communications, Professor Gary Robinson of Colorado State University, Professor Tony Valois, and Dr. Tim Drummond of Sandia Labs-for their contributions to our joint research and for valuable discussions. My special thanks to Professor Morko., for his help, his ideas, and the example set by his pioneering work. Since 1978 I have been working with engineers from Honeywell, Inc.-Drs.

Turning Principle into Practice Social Marketing: Changing Behaviors for Good is the definitive textbook for the planning and implementation of programs designed to influence social change. No other text is as comprehensive and foundational when it comes to taking key marketing principles and applying them to campaigns and efforts to influence social action. Nancy R. Lee (a preeminent lecturer, consultant, and author in social marketing) and Philip Kotler (an influential individual in the field who coined the term “social marketing” in 1971 with Gerald Zaltman) demonstrate how traditional marketing principles and techniques are successfully applied to campaigns and efforts to improve health, decrease injuries, protect the environment, build communities and enhance financial well-being. The Fifth Edition contains more than 26 new cases highlighting the

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10 step planning model, and a new chapter describing major theories, models and frameworks that inform social marketing strategies and inspire social marketers. Although most people would scarcely be able to make it through the day without using some type of electronic device—computers, televisions, and MP3 players, to name a few—the inner workings of such devices remain a mystery to many. This insightful volume examines various components, such as electron tubes and semiconductors, that have been essential to electronics over the years, as well as the history of the field in general and its applications in everyday life.

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For courses in Basic Electronics and Electronic Devices and Circuits. "Electronic Devices ("ELECTRON FLOW" VERSION), Ninth Edition," provides a solid foundation in basic analog electronics and a thorough introduction to analog integrated circuits and programmable devices. The text identifies the circuits and components within a system, helping students see how the circuit relates to the overall system function. Full-color photos and illustrations and easy-to-follow worked examples support the text's strong emphasis on real-world application and troubleshooting. Updated throughout, the ninth edition features new "GreenTech Applications" and a new chapter, Basic Programming Concepts for Automated Testing.

This textbook provides an introduction to some fundamental concepts in Discrete Mathematics and the important role this subject plays in computer science. Every topic in this book has been started with necessary introduction and developed

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gradually up to the standard form. The book lays emphasis on the applicability of Mathematical structures to computer science. The content of this book is well supported with numerous solved examples with detailed explanation

The first book in the field to incorporate fundamentals of energy systems and their applications to smart grid, along with advanced topics in modeling and control This book provides an overview of how multiple sources and loads are connected via power electronic devices. Issues of storage technologies are discussed, and a comparison summary is given to facilitate the design and selection of storage types. The need for real-time measurement and controls are pertinent in future grid, and this book dedicates several chapters to real-time measurements such as PMU, smart meters, communication scheme, and protocol and standards for processing and controls of energy options. Organized into nine sections, Energy Processing for the Smart Grid gives an introduction to the energy processing concepts/topics needed by students in electrical engineering or non-electrical engineering who need to work in areas of future grid development. It covers such modern topics as renewable energy, storage technologies, inverter and converter, power electronics, and metering and control for microgrid systems. In addition, this text: Provides the interface between the classical machines courses with current trends in energy processing and smart grid Details an understanding of three-phase networks, which is needed to determine voltages, currents, and power from source to sink under different load models and network configurations Introduces different energy sources including renewable and non-renewable energy resources with appropriate modeling characteristics and performance measures Covers the conversion and processing of these resources to meet different DC and AC load requirements Provides an overview and a case study of

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how multiple sources and loads are connected via power electronic devices Benefits most policy makers, students and manufacturing and practicing engineers, given the new trends in energy revolution and the desire to reduce carbon output Energy Processing for the Smart Grid is a helpful text for undergraduates and first year graduate students in a typical engineering program who have already taken network analysis and electromagnetic courses.

This book analyzes the thermal characteristics of power electronic devices (PEDs) with a focus on those used in wind and solar energy systems. The authors focus on the devices used in such applications, for example boost converters and inverters under different operating conditions. The book explains in detail finite element modeling techniques, setting up measuring systems, data analysis, and PEDs' lifetime calculations. It is appropriate reading for graduate students and researchers who focus on the design and reliability of power electronic devices.

This outstanding textbook provides an introduction to electronic materials and device concepts for the major areas of current and future information technology. On about 1,000 pages, it collects the fundamental concepts and key technologies related to advanced electronic materials and devices. The obvious strength of the book is its encyclopedic character, providing adequate background material instead of just reviewing current trends. It focuses on the underlying principles which are illustrated by contemporary examples. The third edition now holds 47 chapters grouped into eight sections. The first two sections are devoted to principles, materials processing and characterization methods. Following sections hold contributions to relevant materials and various devices, computational concepts, storage systems, data transmission, imaging systems and displays. Each subject area is opened by a tutorial introduction, written by the editor

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and giving a rich list of references. The following chapters provide a concise yet in-depth description in a given topic. Primarily aimed at graduate students of physics, electrical engineering and information technology as well as material science, this book is equally of interest to professionals looking for a broader overview. Experts might appreciate the book for having quick access to principles as well as a source for getting insight into related fields.

This is a student supplement associated with: Electronic Devices (Conventional Current Version), 9/e Thomas L. Floyd ISBN: 0132549867 Electronic Devices (Electron Flow Version), 9/e Thomas L. Floyd ISBN: 0132549859

Electrical and Electronic Engineering provides a foundation for first year undergraduates and HND students in electrical and electronic engineering. It offers exceptional breadth of coverage and detail in a clear and accessible manner. Suitable for specialists and non-specialists, it makes no excessive demands on the reader's mathematical skills. The basics of circuit theory and analysis are covered at the outset, followed by discrete devices and integrated circuits. Electrical machines, power electronics and digital logic circuits are treated thoroughly in a central group of chapters. Coverage of the essentials of computer architecture and networks is followed by a detailed chapter on microprocessors and microcontrollers. The importance of modern communications technology is reflected in the comprehensive group of chapters devoted to analogue, digital and optical fibre communications systems and telephony. Two concluding chapters deal with the important topic of electromagnetic compatibility and the basics of instrumentation and measurement that are essential for non-specialists. This fully revised third edition of this popular text uses a wealth of practical exercises and examples making it ideal as a teaching resource or a study tool.

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