

Signals Systems 2nd Edition Simon Haykin

Welcome to THE INJURED DEER, the third in the series of Laura McNaughty books where we find Laura busy trying to help an injured deer she saw in Stokey's woods; and the grumpy Harbour Master has come to Laura's attention for being cruel to the sea birds living in and around the harbour. Laura McBean lives in the middle cottage of three with her brother Johnny and her mum on the edge of Stokey's Woods. Laura was quite a mischievous girl when she was growing up, and that is how she got the nickname of Laura McNaughty. She doesn't get into as much mischief now because she is that little bit older; but if she finds out that someone has been cruel to animals then that person, whoever he or she maybe, will have Laura and her friends to contend with.

As in most areas of science and engineering, the most important and useful theories are the ones that capture the essence, and therefore the beauty, of physical phenomena. This is true of signals and systems. Signals and Systems: Analysis Using Transform Methods and MATLAB captures the mathematical beauty of signals and systems and offers a student-centered, pedagogically driven approach. The author has a clear understanding of the issues students face in learning the material and does a superior job of addressing these issues.

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The book is intended to cover a two-semester sequence in Signals and Systems for juniors in engineering.

The essential introduction to the principles and applications of feedback systems—now fully revised and expanded This textbook covers the mathematics needed to model, analyze, and design feedback systems. Now more user-friendly than ever, this revised and expanded edition of Feedback Systems is a one-volume resource for students and researchers in mathematics and engineering. It has applications across a range of disciplines that utilize feedback in physical, biological, information, and economic systems. Karl Åström and Richard Murray use techniques from physics, computer science, and operations research to introduce control-oriented modeling. They begin with state space tools for analysis and design, including stability of solutions, Lyapunov functions, reachability, state feedback observability, and estimators. The matrix exponential plays a central role in the analysis of linear control systems, allowing a concise development of many of the key concepts for this class of models. Åström and Murray then develop and explain tools in the frequency domain, including transfer functions, Nyquist analysis, PID control, frequency domain design, and robustness. Features a new chapter on design principles and tools, illustrating the types of problems that can be solved using feedback Includes a new chapter

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on fundamental limits and new material on the Routh-Hurwitz criterion and root locus plots Provides exercises at the end of every chapter Comes with an electronic solutions manual An ideal textbook for undergraduate and graduate students Indispensable for researchers seeking a self-contained resource on control theory

For courses in Adaptive Filters. Haykin examines both the mathematical theory behind various linear adaptive filters and the elements of supervised multilayer perceptrons. In its fifth edition, this highly successful book has been updated and refined to stay current with the field and develop concepts in as unified and accessible a manner as possible.

Strengthen family and community engagement to promote equity and increase student success! When schools, families, and communities collaborate and share responsibility for students' education, more students succeed in school. Based on 30 years of research and fieldwork, this fourth edition of a bestseller provides tools and guidelines to use to develop more effective and equitable programs of family and community engagement. Written by a team of well-known experts, this foundational text demonstrates a proven approach to implement and sustain inclusive, goal-oriented programs. Readers will find: Many examples and vignettes Rubrics and checklists for implementation of plans CD-ROM complete

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with slides and notes for workshop presentations

The latest edition of this classic is updated with new problem sets and material. The Second Edition of this fundamental textbook maintains the book's tradition of clear, thought-provoking instruction. Readers are provided once again with an instructive mix of mathematics, physics, statistics, and information theory. All the essential topics in information theory are covered in detail, including entropy, data compression, channel capacity, rate distortion, network information theory, and hypothesis testing. The authors provide readers with a solid understanding of the underlying theory and applications. Problem sets and a telegraphic summary at the end of each chapter further assist readers. The historical notes that follow each chapter recap the main points. The Second Edition features:

- * Chapters reorganized to improve teaching
- * 200 new problems
- * New material on source coding, portfolio theory, and feedback capacity
- * Updated references

Now current and enhanced, the Second Edition of Elements of Information Theory remains the ideal textbook for upper-level undergraduate and graduate courses in electrical engineering, statistics, and telecommunications.

EZ RPG is story-driven, universal role playing made easy. Play games in any genre from fantasy to science fiction, ranging from the ridiculous to the horrific. This easy to learn game system uses only a couple of six sided dice. Good for

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beginning gamers as well as the experienced table top role playing guru. Generate fun and compelling characters in minutes. New worlds of fun and adventure await, your imagination is the only limit.

The world is infected and humanity is reduced to creatures of vicious insanity. Doctor Thorn's rescue by a group of young survivors is just the beginning of their nightmarish journey to survive. In this apocalyptic landscape, humankind has one final hope that rests on the strength and determination of 10 young men and women.

Design and MATLAB concepts have been integrated in text. ? Integrates applications as it relates signals to a remote sensing system, a controls system, radio astronomy, a biomedical system and seismology.

(2nd edition; 2016) I have recently revised this book (June 2016) in order to provide the general public with updated information about product diversion, skin cancer statistics, hair removal options and what to look for in an esthetician. This book provides an overview, the goal of which is to help the general public navigate their way through various skin care options before committing to a medical or surgical procedure that could be expensive, irreversible and possibly dangerous. (Estheticians, please give this little book a quick read and pass it along to your clients, your friends, their friends, etc. Let's get the word out that Estheticians Are a Girl's Best Friend!) Women in particular are bombarded with ads advising them to nip, tuck, lift, tighten, slim, change and fix. In other words, we are urged to alter who we are and how we look. But no matter what

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any manufacturer, salesperson, or the media tries to tell you (or sell you), there is no anti-aging miracle product that will work for every woman. We all have personal variables which determine how well our skin will age such as genetics, environmental exposure, lifestyle choices, hormones and health issues. And even within those parameters, much depends upon how the skin is maintained throughout one's life.

ABOUT THE BOOK Since the terrorist attack of September 11th America has been filled with clouds of evil. They have darkened our reason and covered us with ashes of anger. How do we sort out our feelings of revenge and retaliation with those of understanding, compassion and love? Some of us believe knowledge of American history will give us the insight and maturity that we need to help our nation through this war on terrorism. We need to understand the basic principles of democracy and freedom to know what we have fought for in the past and what we fight for now. Americans need to rededicate themselves to the cause of freedom to face the future. Freedom should not be taken for granted because there are those who would take it from us. We need to understand that some governments terrorize and abuse their people. These governments intentionally control their people by keeping them oppressed and ignorant. The history of our country is great but as Thomas Jefferson warned: "If a nation expects to be ignorant and free, it expects what never was and never will be." A recent alarming ACTA report which polled seniors at the nation's top 55 colleges indicates that we have a generation of Americans who are historically

illiterate. The survey revealed that almost half would fail the basic test in American history required for immigrants who seek citizenship in the United States. American Symbols For Schools has the common information about the different state flowers, birds and trees as well as information about the many new symbols which the states have enacted which includes their scientific names and dates of inception it also includes the active and colorful history of each state and interesting facts and trivia about the states. This special commemorative Civics and History reference book also contains the American Symbols Collection (flags, seals and more than 150 photographs of American symbols), National symbols, History, National Parks, Places of Interest, Tourist Information, United We Stand Anthem, Song and Bookmark. Editorial Reviews From the Author As author of this keepsake edition I have taken great care in compiling this information to insure its value to you in your library. I sincerely hope you enjoy reading American Symbols For Schools as much as I enjoyed writing it. Debbie Sennett The discovery of the mutilated corpse of a legal secretary in the garden of her employer's house presents an intriguing problem for the west Yorkshire police force. The absence of any motive or credible suspects make it seem that they are heading for a dead end. Unknown to the police, this murder was an act of revenge, carried out by an unsuspecting man, manipulated by a malevolent controller who has infiltrated his mind. For the controller, this act was retribution, but he soon escalates it to another level, regarding it as a game. He presents the police with yet another murder

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and as suspects line up, confusion reigns. He cares little about who suffers in this bizarre game. The outcome is uncertain and the reader is challenged to identify the real perpetrator. The first part of a trilogy, this book merely whets the appetite. For more information, contact www.winemanauthor.com

Covers the most important imaging modalities in radiology: projection radiography, x-ray computed tomography, nuclear medicine, ultrasound imaging, and magnetic resonance imaging. Organized into parts to emphasize key overall conceptual divisions. Discover the Applicability, Benefits, and Potential of New Technologies As advances in algorithms and computer technology have bolstered the digital signal processing capabilities of real-time sonar, radar, and non-invasive medical diagnostics systems, cutting-edge military and defense research has established conceptual similarities in these areas. Now civilian enterprises can use government innovations to facilitate optimal functionality of complex real-time systems. Advanced Signal Processing details a cost-efficient generic processing structure that exploits these commonalities to benefit commercial applications. Learn from a Renowned Defense Scientist, Researcher, and Innovator The author preserves the mathematical focus and key information from the first edition that provided invaluable coverage of topics including adaptive systems, advanced beamformers, and volume visualization methods in medicine. Integrating the best features of non-linear and conventional algorithms and explaining their application in PC-based architectures, this text contains new data on: Advances in biometrics,

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image segmentation, registration, and fusion techniques for 3D/4D ultrasound, CT, and MRI Fully digital 3D/ (4D: 3D+time) ultrasound system technology, computing architecture requirements, and relevant implementation issues State-of-the-art non-invasive medical procedures, non-destructive 3D tomography imaging and biometrics, and monitoring of vital signs Cardiac motion correction in multi-slice X-ray CT imaging Space-time adaptive processing and detection of targets interference-intense backgrounds comprised of clutter and jamming With its detailed explanation of adaptive, synthetic-aperture, and fusion-processing schemes with near-instantaneous convergence in 2-D and 3-D sensors (including planar, circular, cylindrical, and spherical arrays), the quality and illustration of this text's concepts and techniques will make it a favored reference.

Design and MATLAB concepts have been integrated in text. * Integrates applications as it relates signals to a remote sensing system, a controls system, radio astronomy, a biomedical system and seismology.

This textbook presents an introduction to fundamental concepts of continuous-time and discrete-time signals and systems, in a self-contained manner.

Offers the most complete, up-to-date coverage available on the principles of digital communications. Focuses on basic issues, relating theory to practice wherever possible. Numerous examples, worked out in detail, have been

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included to help the reader develop an intuitive grasp of the theory. Topics covered include the sampling process, digital modulation techniques, error-control coding, robust quantization for pulse-code modulation, coding speech at low bit radio, information theoretic concepts, coding and computer communication. Because the book covers a broad range of topics in digital communications, it should satisfy a variety of backgrounds and interests, and offers a great deal of flexibility for teaching the course. The author has included suggested course outlines for courses at the undergraduate or graduate levels. Includes textbook CD-ROM "Engineering Signals and Systems Textbook Resources"

PLATELETS is the definitive current source of state-of-the-art knowledge about platelets and covers the entire field of platelet biology, pathophysiology, and clinical medicine. Recently there has been a rapid expansion of knowledge in both basic biology and the clinical approach to platelet-related diseases including thrombosis and hemorrhage. Novel platelet function tests, drugs, blood bank storage methods, and gene therapies have been incorporated into patient care or are in development. This book draws all this information into a single, comprehensive and authoritative resource. · First edition won Best Book in Medical Science Award from the Association of American Publishers · Contains

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fourteen new chapters on topics such as platelet genomics and proteomics, inhibition of platelet function by the endothelium, clinical tests of platelet function, real time in vivo imaging of platelets, and inherited thrombocytopenias · A comprehensive full color reference comprising over 70 chapters, 1400 pages, and 16,000 references

An introductory treatment of communication theory as applied to the transmission of information-bearing signals with attention given to both analog and digital communications. Chapter 1 reviews basic concepts. Chapters 2 through 4 pertain to the characterization of signals and systems. Chapters 5 through 7 are concerned with transmission of message signals over communication channels. Chapters 8 through 10 deal with noise in analog and digital communications. Each chapter (except chapter 1) begins with introductory remarks and ends with a problem set. Treatment is self-contained with numerous worked-out examples to support the theory. · Fourier Analysis · Filtering and Signal Distortion · Spectral Density and Correlation · Digital Coding of Analog Waveforms · Intersymbol Interference and Its Cures · Modulation Techniques · Probability Theory and Random Processes · Noise in Analog Modulation · Optimum Receivers for Data Communication

On October 28th 1890 the great wall of the Barsdon Dam gave way, and the

Eagle Star reservoir buried the small Arizona town of Jackson Hope under forty feet of water. Men, women and children perished in the devastating flood, nobody survived. For over a hundred years the town lay forgotten at the bottom of a vast lake, but it has been a particularly harsh summer in Arizona, and the town is starting to emerge. Experts will come and survey the land, hoping to prospect for a bright and lucrative new project, but they will get more than they bargained for. Bit by bit they will uncover the truth behind the disaster which wiped a small farming community off the map, and as they do they will learn with devastating consequences that some secrets should stay buried forever.

"IEEE Press is proud to present the first selected reprint volume devoted to the new field of intelligent signal processing (ISP). ISP differs fundamentally from the classical approach to statistical signal processing in that the input-output behavior of a complex system is modeled by using "intelligent" or "model-free" techniques, rather than relying on the shortcomings of a mathematical model. Information is extracted from incoming signal and noise data, making few assumptions about the statistical structure of signals and their environment. Intelligent Signal Processing explores how ISP tools address the problems of practical neural systems, new signal data, and blind fuzzy approximators. The editors have compiled 20 articles written by prominent researchers covering 15

diverse, practical applications of this nascent topic, exposing the reader to the signal processing power of learning and adaptive systems. This essential reference is intended for researchers, professional engineers, and scientists working in statistical signal processing and its applications in various fields such as humanistic intelligence, stochastic resonance, financial markets, optimization, pattern recognition, signal detection, speech processing, and sensor fusion. Intelligent Signal Processing is also invaluable for graduate students and academics with a background in computer science, computer engineering, or electrical engineering. About the Editors Simon Haykin is the founding director of the Communications Research Laboratory at McMaster University, Hamilton, Ontario, Canada, where he serves as university professor. His research interests include nonlinear dynamics, neural networks and adaptive filters and their applications in radar and communications systems. Dr. Haykin is the editor for a series of books on "Adaptive and Learning Systems for Signal Processing, Communications and Control" (Publisher) and is both an IEEE Fellow and Fellow of the Royal Society of Canada. Bart Kosko is a past director of the University of Southern California's (USC) Signal and Image Processing Institute. He has authored several books, including Neural Networks and Fuzzy Systems, Neural Networks for Signal Processing (Publisher, copyright date) and Fuzzy Thinking

(Publisher, copyright date), as well as the novel Nanotime (Publisher, copyright date). Dr. Kosko is an elected governor of the International Neural Network Society and has chaired many neural and fuzzy system conferences. Currently, he is associate professor of electrical engineering at USC."

Poetry / Inspiration / Philosophy / Self-Help The phenomenon with over 1.4 Million followers on Facebook is now a book series Notes for the soul - and for the road - since 2003 (Join or see the page at: <https://www.facebook.com/apoemaday>) ..".sometimes, less is more. Jean's poetic mirror is the creative catalyst that can truly change your life One merely has to read and listen. Exquisite, portraits in verse " Dale E. Taylor Former VP, YTV Canada Programming and Production ----- Teachers and Students: The author authorizes the use of this book in your classroom. "Write a few rhymes on any of mine, drop them on my Facebook page, I will likely answer you " - Jean Mercier ----- Ask your library to get it, offer yourself or someone the gift of love, self-help, poetry and positive philosophy all in one with these books 366 original simple short poems in each book that will touch everybody's heart. IMAGINE SOCIETY: A POEM A DAY, Volume 3 (New, 2nd edition, 2013) presents the writings of Canadian Poet Jean Mercier as delivered daily all around the world in its third year through the web series Jean Mercier's A Poem A Day co-created by

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Thank you in advance for your kindness.

Please leave us comments or write anytime through my Facebook page or by

email. I'd love to hear from you

Modern experimental developments in condensed matter and ultracold atom physics present formidable challenges to theorists. This book provides a pedagogical introduction to quantum field theory in many-particle physics, emphasizing the applicability of the formalism to concrete problems. This second edition contains two new chapters developing path integral approaches to classical and quantum nonequilibrium phenomena. Other chapters cover a range of topics, from the introduction of many-body techniques and functional integration, to renormalization group methods, the theory of response functions, and topology. Conceptual aspects and formal methodology are emphasized, but the discussion focuses on practical experimental applications drawn largely from condensed matter physics and neighboring fields. Extended and challenging problems with fully worked solutions provide a bridge between formal manipulations and research-oriented thinking. Aimed at elevating graduate students to a level where they can engage in independent research, this book complements graduate level courses on many-particle theory.

Whether in freezing arctic tundra or blazing deserts, human beings have been figuring out how to adapt to hostile environments for centuries. New challenges emerge, however, as we venture to places where we are truly unable to exist

without technology. When it comes to surviving underwater, a thorough knowledge of human physiology must be combined with a firm grasp of engineering principles, and Life Support Systems Design provides the student with an extensive grounding in both. A reference text for any beginning life support systems engineer, it also serves as a refresher course for more experienced divers. The text particularly emphasizes the effects of hyperbaric exposures on the diver's ability to function, but it also explores underwater physics, including the transport of light, heat, and gases, in detail. It reviews the practical technological aspects of life support system engineering, such as gas storage and delivery systems, and environmental control design. Finally, once the textbook has been absorbed, the authors encourage the student to design a life support system for a specified application. Armed with the knowledge gained from Life Support Systems Design, it seems like a project any student would ace.

Field-Programmable Gate Arrays (FPGAs) are revolutionizing digital signal processing as novel FPGA families are replacing ASICs and PDSPs for front-end digital signal processing algorithms. So the efficient implementation of these algorithms is critical and is the main goal of this book. It starts with an overview of today's FPGA technology, devices, and tools for designing state-of-the-art DSP systems. A case study in the first chapter is the basis for more than 30 design

examples throughout. The following chapters deal with computer arithmetic concepts, theory and the implementation of FIR and IIR filters, multirate digital signal processing systems, DFT and FFT algorithms, and advanced algorithms with high future potential. Each chapter contains exercises. The VERILOG source code and a glossary are given in the appendices, while the accompanying CD-ROM contains the examples in VHDL and Verilog code as well as the newest Altera "Baseline" software. This edition has a new chapter on adaptive filters, new sections on division and floating point arithmetics, an up-date to the current Altera software, and some new exercises.

Accompanying CD-ROM contains a number of GPS data sets from several sites. A set of homework problems requires the student to write simple MATLAB code to analyze these data.

A bottom-up approach that enables readers to master and apply the latest techniques in state estimation This book offers the best mathematical approaches to estimating the state of a general system. The author presents state estimation theory clearly and rigorously, providing the right amount of advanced material, recent research results, and references to enable the reader to apply state estimation techniques confidently across a variety of fields in science and engineering. While there are other textbooks that treat state

estimation, this one offers special features and a unique perspective and pedagogical approach that speed learning:

- * Straightforward, bottom-up approach begins with basic concepts and then builds step by step to more advanced topics for a clear understanding of state estimation
- * Simple examples and problems that require only paper and pen to solve lead to an intuitive understanding of how theory works in practice
- * MATLAB(r)-based source code that corresponds to examples in the book, available on the author's Web site, enables readers to recreate results and experiment with other simulation setups and parameters

Armed with a solid foundation in the basics, readers are presented with a careful treatment of advanced topics, including unscented filtering, high order nonlinear filtering, particle filtering, constrained state estimation, reduced order filtering, robust Kalman filtering, and mixed Kalman/H ∞ filtering. Problems at the end of each chapter include both written exercises and computer exercises. Written exercises focus on improving the reader's understanding of theory and key concepts, whereas computer exercises help readers apply theory to problems similar to ones they are likely to encounter in industry. With its expert blend of theory and practice, coupled with its presentation of recent research results, Optimal State Estimation is strongly recommended for undergraduate and graduate-level courses in optimal control

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and state estimation theory. It also serves as a reference for engineers and science professionals across a wide array of industries.

This is the eBook of the printed book and may not include any media, website access codes, or print supplements that may come packaged with the bound book. For sophomore/junior-level signals and systems courses in Electrical and Computer Engineering departments. Signals, Systems, and Transforms, Fourth Edition is ideal for electrical and computer engineers. The text provides a clear, comprehensive presentation of both the theory and applications in signals, systems, and transforms. It presents the mathematical background of signals and systems, including the Fourier transform, the Fourier series, the Laplace transform, the discrete-time and the discrete Fourier transforms, and the z-transform. The text integrates MATLAB examples into the presentation of signal and system theory and applications.

This introductory text assists students in developing the ability to understand and analyze both continuous and discrete-time systems. The authors present the most widely used techniques of signal and system analysis in a highly readable and understandable fashion. *Covers the most widely used techniques of signal and system analysis. *Separate treatment of continuous-time and discrete-time signals and systems. *Extensive treatment of Fourier analysis. *A flexible structure making the text accessible to a variety of courses. *Makes extensive use of mathematics in an engineering context. *Uses an abundance of examples to illustrate ideas and apply the theoretical results.

Market_Desc: Electrical Engineers Special Features: - Design and MATLAB concepts have been integrated in the text- Integrates applications as it relates signals to a remote sensing

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system, a controls system, radio astronomy, a biomedical system and seismology About The Book: The text provides a balanced and integrated treatment of continuous-time and discrete-time forms of signals and systems intended to reflect their roles in engineering practice. This approach has the pedagogical advantage of helping the reader see the fundamental similarities and differences between discrete-time and continuous-time representations. It includes a discussion of filtering, modulation and feedback by building on the fundamentals of signals and systems covered in earlier chapters of the book.

A Fortune 500 manufacturing company spent millions attempting to implement a new enterprise resource planning (ERP) system. Across the globe, a 150-employee marketing firm built and tried to implement a proprietary customer relationship management (CRM) system. For two very different companies doing two very different things, the outcomes were identical. In each case, the organization failed to activate and utilize its system as initially conceived by senior management. And these two organizations are hardly alone. On the contrary, research indicates that more than three in five new IT projects fail. Many miss their deadlines. Others exceed their initial budgets, often by ghastly amounts. Even systems activated on time and under budget often fail to produce their expected results and almost immediately experience major problems. Although the statistics are grim, there is at least some good news: these failures can be averted. Organizations often lack the necessary framework to minimize the chance of system failure before, during, and after beginning IT projects. Why New Systems Fail provides such a framework, with specific tools, tips, and insight from the perspective of a seasoned, independent consultant with more than a decade of related experience. The book examines in great detail the root causes of system failures. Detailed case studies, examples,

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and lessons from actual system implementations are presented in an informative, straightforward, and very readable manner. More than a theoretical or technical text, this book offers pragmatic advice for organizations both deploying new systems and maintaining existing ones.

Linear Systems and Signals, Third Edition, has been refined and streamlined to deliver unparalleled coverage and clarity. It emphasizes a physical appreciation of concepts through heuristic reasoning and the use of metaphors, analogies, and creative explanations. The text uses mathematics not only to prove axiomatic theory but also to enhance physical and intuitive understanding. Hundreds of fully worked examples provide a hands-on, practical grounding of concepts and theory. Its thorough content, practical approach, and structural adaptability make Linear Systems and Signals, Third Edition, the ideal text for undergraduates.

Signals and Systems John Wiley & Sons Incorporated

New edition of a text intended primarily for the undergraduate courses on the subject which are frequently found in electrical engineering curricula--but the concepts and techniques it covers are also of fundamental importance in other engineering disciplines. The book is structured to develop in parallel the methods of analysis for continuous-time and discrete-time signals and systems, thus allowing exploration of their similarities and differences. Discussion of applications is emphasized, and numerous worked examples are included. Annotation

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