

# Electromagnetic Propagation in Multi-Mode Random Media



**Harrison E. Rowe**

Wiley Series in Microwave and Optical Engineering • Kai Chang, Series Editor

# Electromagnetic Propagation In Multi Mode Random Media

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## **Electromagnetic Propagation In Multi Mode Random Media:**

*Electromagnetic Propagation in Multi-Mode Random Media* Harrison E. Rowe, 1999-03-05 Reflecting the growing importance of multi mode transmission media in communications radar sensors remote sensing and many other industrial applications this work presents analytic methods for calculating the transmission statistics of microwave and optical components with random imperfections The emphasis here is on multi mode waveguides optical fibers and directional couplers described by the coupled line equations with random parameters as well as multi layer optical coatings used as windows mirrors or filters The author clearly explains how to calculate the transmission statistics of these devices in terms of their coupling or optical thickness statistics in both the time and frequency domains This unique resource for engineers and researchers involved in the design of multi mode transmission media Focuses on matrix techniques and the various types of problems to which they can be applied Incorporates many new results developed by the author Discusses applications to problems of significant practical interest Demonstrates a purely analytical approach not using Monte Carlo or other simulation methods

*Wave Propagation and Time Reversal in Randomly Layered Media* Jean-Pierre Fouque, Josselin Garnier, G. Papanicolaou, Knut Solna, 2007-06-30 Our motivation for writing this book is twofold First the theory of waves propagating in randomly layered media has been studied extensively during the last thirty years but the results are scattered in many different papers This theory is now in a mature state especially in the very interesting regime of separation of scales as introduced by G Papanicolaou and his coauthors and described in 8 which is a building block for this book Second we were motivated by the time reversal experiments of M Fink and his group in Paris They were done with ultrasonic waves and have attracted considerable attention because of the surprising effects of enhanced spatial focusing and time compression in random media An exposition of this work and its applications is presented in 56 Time reversal experiments were also carried out with sonar arrays in shallow water by W Kuperman 113 and his group in San Diego The enhanced spatial focusing and time compression of signals in time reversal in random media have many diverse applications in detection and in focused energy delivery on small targets as for example in the destruction of kidney stones Enhanced spatial focusing is also useful in sonar and wireless communications for reducing interference Time reversal ideas have played an important role in the development of new methods for array imaging in random media as presented in 19

**Physics of Multiantenna Systems and Broadband Processing** T. K. Sarkar, Magdalena Salazar-Palma, Eric L. Mokole, 2008-07-10 An analysis of the physics of multiantenna systems Multiple Input Multiple Output MIMO technology is one of the current hot topics in emerging wireless technologies This book fills the important need for an authoritative reference on the merits of MIMO systems based on physics and provides a sound theoretical basis for its practical implementation The book also addresses the important issues related to broadband adaptive processing Written by three internationally known researchers Physics of Multiantenna Systems and Broadband Processing Provides a thorough discussion of the physical and mathematical principles involved in

MIMO and adaptive systems Examines the electromagnetic framework of wireless communications systems Uses Maxwell's theory to provide a system based framework for the abstract concept of channel capacity Performs various numerical simulations to observe how a typical system will behave in practice Provides a mathematical formulation for broadband adaptive processing and direction of arrival estimation using real antenna arrays Integrates signal processing and electromagnetics to address the performance of realistic multiantenna systems With Physics of Multiantenna Systems and Broadband Processing communication systems engineers graduate students researchers and developers will gain a thorough scientific understanding of this important new technology

**Radio Frequency Circuit Design** W. Alan Davis, Krishna Agarwal, 2003-05-28 A much needed up to date guide to the rapidly growing area of RF circuit design this book walks readers through a whole range of new and improved techniques for the analysis and design of receiver and transmitter circuits illustrating them through examples from modern day communications systems The application of MMIC to RF design is also discussed

**Fundamentals of Optical Fiber Sensors** Zujie Fang, Ken Chin, Ronghui Qu, Haiwen Cai, 2012-08-10 This book describes the latest development in optical fiber devices and their applications to sensor technology Optical fiber sensors an important application of the optical fiber have experienced fast development and attracted wide attentions in basic science as well as in practical applications Sensing is often likened to human sense organs Optical fiber can not only transport information acquired by sensors at high speed and large volume but also can play the roles of sensing element itself Compared with electric and other types of sensors fiber sensor technology has unique merits It has advantages over conventional bulky optic sensors such as combination of sensing and signal transportation smaller size and possibility of building distributed systems Fiber sensor technology has been used in various areas of industry transportation communication security and defense as well as daily life Its importance has been growing with the advancement of the technology and the expansion of the scope of its application a growth this book fully describes

**Introduction to Electromagnetic Compatibility** Clayton R. Paul, 2006-01-03 A Landmark text thoroughly updated including a new CD As digital devices continue to be produced at increasingly lower costs and with higher speeds the need for effective electromagnetic compatibility EMC design practices has become more critical than ever to avoid unnecessary costs in bringing products into compliance with governmental regulations The Second Edition of this landmark text has been thoroughly updated and revised to reflect these major developments that affect both academia and the electronics industry Readers familiar with the First Edition will find much new material including Latest U S and international regulatory requirements PSpice used throughout the textbook to simulate EMC analysis solutions Methods of designing for Signal Integrity Fortran programs for the simulation of Crosstalk supplied on a CD OrCAD r PSpice r Release 10.0 and Version 8 Demo Edition software supplied on a CD The final chapter on System Design for EMC completely rewritten The chapter on Crosstalk rewritten to simplify the mathematics Detailed worked out examples are now included throughout the text In

addition review exercises are now included following the discussion of each important topic to help readers assess their grasp of the material. Several appendices are new to this edition including Phasor Analysis of Electric Circuits, The Electromagnetic Field Equations and Waves, Computer Codes for Calculating the Per Unit Length Parameters and Crosstalk of Multiconductor Transmission Lines, and a SPICE/PSpice tutorial. Now thoroughly updated, the Second Edition of Introduction to Electromagnetic Compatibility remains the textbook of choice for university college EMC courses as well as a reference for EMC design engineers. An Instructor's Manual presenting detailed solutions to all the problems in the book is available from the Wiley editorial department.

Advanced Chipless RFID Nemaï Chandra Karmakar, Mohammad Zomorodi, Chamath Divarathne, 2016-08-03 Introduces advanced high capacity data encoding and throughput improvement techniques for fully printable multi-bit chipless RFID tags and reader systems. The book proposes new approaches to chipless RFID tag encoding and tag detection that supersede their predecessors in signal processing, tag design, and reader architectures. The text is divided into two main sections: the first section introduces the fundamentals of electromagnetic (EM) imaging at mm-wave band to enhance the content capacity of chipless RFID systems. The EM imaging through Synthetic Aperture Radar (SAR) technique is used for data extraction. The second section presents a few smart tag detection techniques for existing chipless RFID systems. A Multiple Input and Multiple Output (MIMO) based tag detection technique improves the spectral efficiency and increases data bit capacity. The book concludes with a discussion of how the MIMO approach can be combined with the image-based technique to introduce a complete solution with a fast imaging approach to chipless RFID systems. The book has the following salient features: Discusses new approaches to chipless RFID tags such as EM imaging, high capacity data encoding, and robust tag detection techniques. Presents techniques to enhance data content capacity of tags and reliable tag detection for the readers at unlicensed microwave and mm-wave 2.45, 24, and 60 GHz instrumentation, scientific, and medical ISM frequency bands. Includes case studies of real-world applications.

Artificial Transmission Lines for RF and Microwave Applications Ferran Martín, 2015-07-01 This book presents and discusses alternatives to ordinary transmission lines for the design and implementation of advanced RF/microwave components in planar technology. This book is devoted to the analysis, study, and applications of artificial transmission lines mostly implemented by means of a host line conveniently modified, e.g., with modulation of transverse dimensions with etched patterns in the metallic layers, etc., or with reactive loading in order to achieve novel device functionalities, superior performance, and/or reduced size. The author begins with an introductory chapter dedicated to the fundamentals of planar transmission lines. Chapter 2 is focused on artificial transmission lines based on periodic structures, including non-uniform transmission lines and reactively loaded lines, and provides a comprehensive analysis of the coupled mode theory. Chapters 3 and 4 are dedicated to artificial transmission lines inspired by metamaterials or based on metamaterial concepts. These chapters include the main practical implementations of such lines and their circuit models and a wide overview of their RF/microwave applications, including passive and active circuits and antennas. Chapter 5

focuses on reconfigurable devices based on tunable artificial lines and on non linear transmission lines The chapter also introduces several materials and components to achieve tuning including diode varactors RF MEMS ferroelectrics and liquid crystals Finally Chapter 6 covers other advanced transmission lines and wave guiding structures such as electroinductive magnetoinductive wave lines common mode suppressed balanced lines lattice network artificial lines and substrate integrated waveguides Artificial Transmission Lines for RF and Microwave Applications provides an in depth analysis and discussion of artificial transmission lines including design guidelines that can be useful to researchers engineers and students

RF and Microwave Wireless Systems Kai Chang, 2004-03-22 A comprehensive introduction to the hardware parameters and architectures of RF microwave wireless systems As the basis for some of the hottest technologies of the new millennium radio frequency RF and microwave wireless systems rapidly propel us toward a future in which the transmission of voice video and data communications will be possible anywhere in the world through the use of simple handheld devices This book provides scientists and engineers with clear thorough up to date explanations of all aspects of RF and microwave wireless systems including general hardware components system parameters and architectures Renowned authority Kai Chang covers both communication and radar sensor systems and extends the discussion to other intriguing topics from global positioning systems GPS to smart highways and smart automobiles With an emphasis on basic operating principles Dr Chang reviews waves and transmission lines examines modulation and demodulation and multiple access techniques and helps bridge the gap between RF microwave engineering and communication system design Ample practical examples of components and system configurations and nearly 300 illustrations and photographs complete this timely and indispensable resource

**Electromagnetic Simulation Techniques Based on the FDTD Method** W. Yu, 2009-09-15 Bridges the gap between FDTD theory and the implementation of practical simulation techniques This is the first publication that guides readers step by step through the implementation of electromagnetic simulation techniques based on FDTD methods These simulation techniques serve as an essential bridge between FDTD methods and their applications Moreover the book helps readers better understand the underlying logic of FDTD methods so that they can design FDTD projects using either commercial electromagnetic software packages or their own codes in order to solve practical engineering problems The book begins with two chapters that introduce the basic concepts of the 3 D Cartesian FDTD method followed by discussions of advanced FDTD methods such as conformal techniques dispersive media circuit elements and near to far field transformation Next the book Presents basic concepts of parallel processing techniques and systems including parallel FDTD techniques and systems Explores simulation techniques based on FDTD methods Illustrates practical simulation techniques using engineering applications Introduces advanced simulation techniques Each chapter concludes with references to help readers investigate particular topics in greater depth Each chapter also includes problem sets that challenge readers to put their new FDTD and simulation skills into practice By bridging the gap between FDTD theory and practical simulation techniques this

publication is an invaluable guide for students and engineers who need to solve a wide range of design problems in RF antenna and microwave engineering

**Coplanar Waveguide Circuits, Components, and Systems** Rainee N. Simons, 2004-03-24 Up to date coverage of the analysis and applications of coplanar waveguides to microwave circuits and antennas The unique feature of coplanar waveguides as opposed to more conventional waveguides is their uniplanar construction in which all of the conductors are aligned on the same side of the substrate This feature simplifies manufacturing and allows faster and less expensive characterization using on wafer techniques Coplanar Waveguide Circuits Components and Systems is an engineer s complete resource collecting all of the available data on the subject Rainee Simons thoroughly discusses propagation parameters for conventional coplanar waveguides and includes valuable details such as the derivation of the fundamental equations physical explanations and numerical examples Coverage also includes Discontinuities and circuit elements Transitions to other transmission media Directional couplers hybrids and magic T Microelectromechanical systems based switches and phase shifters Tunable devices using ferroelectric materials Photonic bandgap structures Printed circuit antennas

**Solar Cells and Their Applications** Lewis M. Fraas, Larry D. Partain, 2010-10-29 A major update of solar cell technology and the solar marketplace Since the first publication of this important volume over a decade ago dramatic changes have taken place with the solar market growing almost 100 fold and the U S moving from first to fourth place in the world market as analyzed in this Second Edition Three bold new opportunities are identified for any countries wanting to improve market position The first is combining pin solar cells with 3X concentration to achieve economic competitiveness near term The second is charging battery powered cars with solar cell generated electricity from arrays in surrounding areas including the car owners homes while simultaneously reducing their home electricity bills by over ninety percent The third is formation of economic unions of sufficient combined economic size to be major competitors In this updated edition feed in tariffs are identified as the most effective approach for public policy Reasons are provided to explain why pin solar cells outperform more traditional pn solar cells Field test data are reported for nineteen percent pin solar cells and for 500X concentrating systems with bare cell efficiencies approaching forty percent Paths to bare cell efficiencies over fifty percent are described and key missing program elements are identified Since government support is needed for new technology prototype integration and qualification testing before manufacturing scale up the key economic measure is identified in this volume as the electricity cost in cents per kilowatt hour at the complete installed system level rather than just the up front solar cell modules costs in dollars per watt This Second Edition will benefit technologists in the fields of solar cells and systems solar cell researchers power systems designers academics studying microelectronics semiconductors and solar cells business students and investors with a technical focus and government and political officials developing public policy

**Fundamentals of Photonics** Bahaa E. A. Saleh, Malvin Carl Teich, 2020-03-04 Fundamentals of Photonics A complete thoroughly updated full color third edition Fundamentals of Photonics Third Edition is

a self contained and up to date introductory level textbook that thoroughly surveys this rapidly expanding area of engineering and applied physics Featuring a blend of theory and applications coverage includes detailed accounts of the primary theories of light including ray optics wave optics electromagnetic optics and photon optics as well as the interaction of light and matter Presented at increasing levels of complexity preliminary sections build toward more advanced topics such as Fourier optics and holography photonic crystal optics guided wave and fiber optics LEDs and lasers acousto optic and electro optic devices nonlinear optical devices ultrafast optics optical interconnects and switches and optical fiber communications The third edition features an entirely new chapter on the optics of metals and plasmonic devices Each chapter contains highlighted equations exercises problems summaries and selected reading lists Examples of real systems are included to emphasize the concepts governing applications of current interest Each of the twenty four chapters of the second edition has been thoroughly updated

**Microstrip Filters for RF / Microwave Applications** Jia-Sheng Hong, 2011-01-06 The first edition of Microstrip Filters for RF Microwave Applications was published in 2001 Over the years the book has been well received and is used extensively in both academia and industry by microwave researchers and engineers From its inception as a manuscript the book is almost 8 years old While the fundamentals of filter circuits have not changed further innovations in filter realizations and other applications have occurred with changes in the technology and use of new fabrication processes such as the recent advances in RF MEMS and ferroelectric films for tunable filters the use of liquid crystal polymer LCP substrates for multilayer circuits as well as the new filters for dual band multi band and ultra wideband UWB applications Although the microstrip filter remains as the main transmission line medium for these new developments there has been a new trend of using combined planar transmission line structures such as co planar waveguide CPW and slotted ground structures for novel physical implementations beyond the single layer in order to achieve filter miniaturization and better performance Also over the years practitioners have suggested topics that should be added for completeness or deleted in some cases as they were not very useful in practice In view of the above the authors are proposing a revised version of the Microstrip Filters for RF Microwave Applications text and a slightly changed book title of Planar Filters for RF Microwave Applications to reflect the aforementioned trends in the revised book

*Balanced Microwave Filters* Ferran Martín, Lei Zhu, Jiasheng Hong, Francisco Medina, 2018-02-26 This book presents and discusses strategies for the design and implementation of common mode suppressed balanced microwave filters including narrowband wideband and ultra wideband filters This book examines differential mode or balanced microwave filters by discussing several implementations of practical realizations of these passive components Topics covered include selective mode suppression designs based on distributed and semi lumped approaches multilayer technologies defect ground structures coupled resonators metamaterials interference techniques and substrate integrated waveguides among others Divided into five parts Balanced Microwave Filters begins with an introduction that presents the fundamentals of balanced lines circuits and networks Part 2 covers



balanced transmission lines with common mode noise suppression including several types of common mode filters and the application of such filters to enhance common mode suppression in balanced bandpass filters Next Part 3 examines wideband and ultra wideband UWB balanced bandpass filters with intrinsic common mode suppression Narrowband and dual band balanced bandpass filters with intrinsic common mode suppression are discussed in Part 4 Finally Part 5 covers other balanced circuits such as balanced power dividers and combiners and differential mode equalizers with common mode filtering In addition the book Explores a research topic of increasing interest due to the growing demand of balanced transmission lines and circuits in modern communication systems Includes contributions from prominent worldwide experts in the field Provides readers with the necessary knowledge to analyze and synthesize balanced filters and circuits **Balanced Microwave Filters** is an important text for R D engineers professionals and specialists working on the topic of microwave filters Post graduate students and Masters students in the field of microwave engineering and wireless communications especially those involved in courses related to microwave filters and balanced filters and circuits will also find it to be a vital resource

**Inverse Synthetic Aperture Radar Imaging With MATLAB Algorithms** Caner Ozdemir, 2021-05-04 Build your knowledge of SAR ISAR imaging with this comprehensive and insightful resource The newly revised Second Edition of **Inverse Synthetic Aperture Radar Imaging with MATLAB Algorithms** covers in greater detail the fundamental and advanced topics necessary for a complete understanding of inverse synthetic aperture radar ISAR imaging and its concepts Distinguished author and academician Caner Ozdemir describes the practical aspects of ISAR imaging and presents illustrative examples of the radar signal processing algorithms used for ISAR imaging The topics in each chapter are supplemented with MATLAB codes to assist readers in better understanding each of the principles discussed within the book This new edition includes discussions of the most up to date topics to arise in the field of ISAR imaging and ISAR hardware design The book provides a comprehensive analysis of advanced techniques like Fourier based radar imaging algorithms and motion compensation techniques along with radar fundamentals for readers new to the subject The author covers a wide variety of topics including Radar fundamentals including concepts like radar cross section maximum detectable range frequency modulated continuous wave and doppler frequency and pulsed radar The theoretical and practical aspects of signal processing algorithms used in ISAR imaging The numeric implementation of all necessary algorithms in MATLAB ISAR hardware emerging topics on SAR ISAR focusing algorithms such as bistatic ISAR imaging polarimetric ISAR imaging and near field ISAR imaging Applications of SAR ISAR imaging techniques to other radar imaging problems such as thru the wall radar imaging and ground penetrating radar imaging Perfect for graduate students in the fields of electrical and electronics engineering electromagnetism imaging radar and physics **Inverse Synthetic Aperture Radar Imaging With MATLAB Algorithms** also belongs on the bookshelves of practicing researchers in the related areas looking for a useful resource to assist them in their day to day professional work

**Microwave Ring Circuits and Related Structures** Kai

Chang,Lung-Hwa Hsieh,2004-05-06 The definitive text on microwave ring circuits now better than ever For the past three decades the ring resonator has been widely used in such applications as measurements filters oscillators mixers couplers power dividers combiners antennas and frequency selective surfaces to name just a few The field has continued to expand with many new analyses models and applications recently reported Microwave Ring Circuits and Related Structures has long been the only text fully dedicated to the treatment of ring resonators The second edition has been thoroughly revised to reflect the most current developments in the field In addition to updating all the original material the authors have added extensive new coverage on A universal model for both rectangular and circular ring configurations Applications of ring structures for all types of planar circuits A new transmission line analysis An abundance of new applications in bandpass and bandstop filters couplers oscillators and antennas While retaining all the features that made the original text so useful to both students and teachers in the field the second edition seeks to introduce the analysis and models of ring resonators and to apply them to both the old and the new applications including microstrip slotline coplanar waveguide and waveguide transmission lines Based on dissertations and papers published by graduate students scholars and research associates at A M University Microwave Ring Circuits and Related Structures Second Edition is sure to be a valuable addition to both engineering classrooms and research libraries in the field Radio Propagation and Adaptive Antennas for Wireless Communication Networks Nathan Blaunstein,Christos G. Christodoulou,2014-04-03 Radio Propagation and Adaptive Antennas for Wireless Communication Networks 2nd Edition presents a comprehensive overview of wireless communication system design including the latest updates to considerations of over the terrain atmospheric and ionospheric communication channels New features include the latest experimentally verified stochastic approach based on several multi parametric models all new chapters on wireless network fundamentals advanced technologies and current and modern multiple access networks and helpful problem sets at the conclusion of each chapter to enhance clarity The volume s emphasis remains on a thorough examination of the role of obstructions on the corresponding propagation phenomena that influence the transmission of radio signals through line of sight LOS and non line of sight NLOS propagation conditions along the radio path between the transmitter and the receiver antennas and how adaptive antennas used at the link terminals can be used to minimize the deleterious effects of such obstructions With its focus on 3G 4G MIMO and the latest wireless technologies Radio Propagation and Adaptive Antennas for Wireless Communication Networks represents an invaluable resource to topics critical to the design of contemporary wireless communication systems Explores novel wireless networks beyond 3G and advanced 4G technologies such as MIMO via propagation phenomena and the fundamentals of adapted antenna usage Explains how adaptive antennas can improve GoS and QoS for any wireless channel with specific examples and applications in land aircraft and satellite communications Introduces new stochastic approach based on several multi parametric models describing various terrestrial scenarios which have been experimentally verified in different environmental conditions New

chapters on fundamentals of wireless networks cellular and non cellular multiple access networks new applications of adaptive antennas for positioning and localization of subscribers Includes the addition of problem sets at the end of chapters describing fundamental aspects of wireless communication and antennas      *Enabling Technologies for High Spectral-efficiency Coherent Optical Communication Networks* Xiang Zhou,Chongjin Xie,2016-04-29 Enabling Technologies for High Spectral efficiency Coherent Optical Communication Networks Presents the technological advancements that enable high spectral efficiency and high capacity fiber optic communication systems and networks This book examines key technology advances in high spectral efficiency fiber optic communication systems and networks enabled by the use of coherent detection and digital signal processing DSP The first of this book s 16 chapters is a detailed introduction Chapter 2 reviews the modulation formats while Chapter 3 focuses on detection and error correction technologies for coherent optical communication systems Chapters 4 and 5 are devoted to Nyquist WDM and orthogonal frequency division multiplexing OFDM In chapter 6 polarization and nonlinear impairments in coherent optical communication systems are discussed The fiber nonlinear effects in a non dispersion managed system are covered in chapter 7 Chapter 8 describes linear impairment equalization and Chapter 9 discusses various nonlinear mitigation techniques Signal synchronization is covered in Chapters 10 and 11 Chapter 12 describes the main constraints put on the DSP algorithms by the hardware structure Chapter 13 addresses the fundamental concepts and recent progress of photonic integration Optical performance monitoring and elastic optical network technology are the subjects of Chapters 14 and 15 Finally Chapter 16 discusses spatial division multiplexing and MIMO processing technology a potential solution to solve the capacity limit of single mode fibers Contains basic theories and up to date technology advancements in each chapter Describes how capacity approaching coding schemes based on low density parity check LDPC and spatially coupled LDPC codes can be constructed by combining iterative demodulation and decoding Demonstrates that fiber nonlinearities can be accurately described by some analytical models such as GN EGN model Presents impairment equalization and mitigation techniques Enabling Technologies for High Spectral efficiency Coherent Optical Communication Networks is a reference for researchers engineers and graduate students      *Analysis Methods for RF, Microwave, and Millimeter-Wave Planar Transmission Line Structures* Cam Nguyen,2003-05-28 A one stop reference to the major techniques for analyzing microwave planar transmission line structures The last two decades have seen important progress in the development of methods for the analysis of microwave and millimeter wave passive structures which contributed greatly to microwave integrated circuit design while also stimulating the development of new planar transmission lines This timely and authoritative work introduces microwave engineers to the most commonly used techniques for analyzing microwave planar transmission line structures Designed to be easily accessible to readers with only a fundamental background in electromagnetic theory the book provides clear explanations of the theory and applications of Green s function the conformal mapping method spectral domain methods variational methods and the mode matching

methods Coverage for each method is self contained and supplemented with problems and solutions as well as useful figures In addition to providing detailed formulations of the methods under discussion this highly practical book also demonstrates how to apply the principles of electromagnetic theory to the analysis of microwave boundary value problems customize methods for specific needs and develop new techniques Analysis Methods for RF Microwave and Millimeter Wave Planar Transmission Line Structures is an excellent working resource for anyone involved in the design and engineering of RF microwave and millimeter wave integrated circuits

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### **Electromagnetic Propagation In Multi Mode Random Media Introduction**

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