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Report - International Technical Conference on Experimental Safety Vehicles Jan 11 2022

Food Hygiene, Microbiology and HACCP Sep 19 2022 Food microbiology is a fascinating and challenging science. It is also very demanding with a constantly changing sea of guidelines, regulations and equipment. Public concerns over food safety issues can overemphasize certain risks and detract from the normal hygienic practice of food manufacturers. This new edition aims to update anyone concerned with the hygienic production of food on key issues of HACCP, food microbiology and the methods of microbe detection. I have taken a 'crystal ball' approach to certain topics. The use of rapid techniques such as lux gene technology and polymerase chain reaction (DNA probes) are progressing so rapidly in the research laboratory that when this book is in print the techniques may be more readily available. New methods for investigating viral gastroenteritis due to small round structured viruses (SRSV) have been developed past the 'research' stage and may become more standard in the next few years. Undoubtedly this will alter our understanding of the prevalence of viral food poisoning. I have also included issues such as new variant CJD (associated with BSE infected cattle) which at the time of writing has only caused the deaths of 20 people, but due to the uncertain incubation time could be a far more serious problem. In the UK there has been a much publicised outbreak of Escherichia coli 0157:H7 which has resulted in a government inquiry and the recommendation of the generic HACCP approach. Hence this approach to HACCP implementation has been included.

NeuroKids - Child Neurology Workbook May 23 2020 "NeuroKids" is the innovative answer to the clinical challenges in child neurology as workbook and corresponding app. With the basic idea of mind maps, the classic textbook has been further developed to provide more targeted information. A uniform classification allows a quick orientation: The Paediatric Clinical Scouts (PCS) provide a condensed knowledge overview and are a guide to diagnostic work-up and therapeutic decision-making. The PCS concentrate on the single patient and give professional skills for emergency medicine, for health care of chronically ill children and adolescents and rehabilitative and palliative therapy. The PCS are complemented by a comprehensive, precise, internationally oriented drug register as well as schemes for neurological and developmental neurological examination with the evidence of good practice. "I am very happy that NeuroKids was endorsed and supported by the board of the European Paediatric Neurology Society (EPNS). We sincerely believe this is a major step forward in training and educating young and old paediatric neurologists and are therefore extremely happy to collaborate in this project." (Lieven Lagae, President European Paediatric Neurology Society) In cooperation with: European Paediatric Neurology Society (EPNS) Ludwig-Maximilians-University Munich, Germany Paediatric Neurology and Developmental Medicine, Children's Hospital Ludwig-Maximilians-University Munich, Germany Institute for Medical Education (DAM) Ludwig-Maximilians-University Munich, Germany Center for International Health (CIH)

Report to the United States Bureau of Mines on the Survey of Southeastern Montana for Areas Suitable for Synthetic Liquid Fuel Plants Feb 12 2022

Advances in Interpenetrating Polymer Networks Mar 13 2022 This is the third volume of Advances in IPNs. Research and development on interpenetrating polymer networks (IPNs) continues to increase at an accelerated pace. The number of publications, patents and symposia worldwide testify to this growth of this important field of polymers. Including a collection of industrial applications of IPNs, ranging from new types of adhesives, coatings, elastomers and plastics to composites, RIM and medical applications.

Molecular mechanisms of modulation of KV7 channels by polyunsaturated fatty acids and their analogues Aug 26 2020 Ion channels are membrane proteins that regulate the permeability of ions across the cell membrane. The sequential opening of different types of ion channels produces action potentials in excitable cells. Action potentials are a way for the body to, for example, transmit signals quickly over a long distance. The KV7 family is an important group of voltage-gated potassium channels. Mutations that cause dysfunction in members of the KV7 family are associated with several forms of disease. Compounds that can activate KV7 channels have previously been shown to work as medical treatments. However, the previously available antiepileptic drug retigabine, has been withdrawn due to adverse effects. Thus, there is a need for further development of compounds that target these channels. PUFA and PUFA analogs have previously been demonstrated to activate KV7.1 through an electrostatic mechanism. This thesis investigates new aspects of the interaction between KV7 channels and PUFA-related compounds. The data in this thesis are from human KV7 channels expressed in *Xenopus laevis* oocytes. The currents produced by the channels expressed in the oocytes have been studied using two-electrode voltage clamp. Our aim was to study the mechanism for the activation of KV7 channels by PUFA and PUFA analogs. More specifically, we intended to study why the beta subunit KCNE1 abolishes the activating effect of PUFA on KV7.1 and how PUFAs activate KV7.2 and KV7.3. Additionally, we wanted to study aspects that may affect whether these compounds are viable as medical treatments. For instance, whether these compounds can activate channels containing disease-causing mutations and whether we can improve compound selectivity towards certain KV7 channels. In Paper I, we introduce disease-causing mutations found in patients into KV7.1 and KCNE1. The characterization showed that these channels had altered biophysical properties compared to wild type channels. A PUFA analog was found to activate and, to a large degree, restore wild type-like biophysical properties in the mutated channels regardless of the localization of the mutation in the channel. In Paper II, we demonstrate why PUFA is unable to activate KV7.1 co-expressed with beta subunit KCNE1. KCNE1 induces a conformational change of KV7.1 that moves the S5-Phelix loop closer to the PUFA binding site. This causes negative charges of the loop to attract protons that reduce local pH at the PUFA binding site. The decreased local pH leads to protonation of PUFA and the PUFAs therefore lose their negative charge. Thus, PUFA cannot activate KV7.1 when it is co-expressed with KCNE1. In Paper III, we study a group of PUFA-related substances, endocannabinoids, on KV7 channels. One endocannabinoid, Arachidonoyl-L-Serine (ARA-S), was identified as a potent activator of the neuronal M-channel, comprising KV7.2 and KV7.3 heteromers. We study the activating mechanism of ARA-S in KV7.2 and KV7.3, demonstrating how the activating effect is linked to two parts of the channel protein, one in the voltage sensor domain and the other in the pore domain. ARA-S was also found to activate KV7.1 and KV7.5 but not KV7.4, which instead was inhibited. Retigabine, a compound that activates the M-channel but has a different KV7 subtype selectivity compared to ARA-S, was used in combination with ARA-S to maintain a potent effect on the M-channel while limiting the activation of other KV7 channels. In conclusion, the activating effect of PUFA analogs on KV7 channels may be helpful in the development of future drug candidates for diseases such as arrhythmia and epilepsy.

Proceedings of the Eleventh European Conference on Earthquake Engineering Dec 30 2020

Climatological Data, Florida Mar 21 2020

Applied Computing and Information Technology Apr 02 2021 This book presents the scientific outcomes of the 6th International Conference on Applied Computing and Information Technology (ACIT 2018), which was held in Kunming, China on June 13–15, 2018. The aim of this conference was to bring together researchers and scientists, businessmen and entrepreneurs, teachers, engineers, computer users, and students to discuss the numerous fields of computer science and to share their experiences and exchange new ideas and information in a meaningful way. The book includes research findings on all aspects (theory, applications and tools) of computer and information science and discusses the practical challenges encountered and the solutions adopted to address them. The book features 13 of the conference's most promising papers.

Thiazoles: Advances in Research and Application: 2011 Edition Dec 18 2019 Thiazoles: Advances in Research and Application: 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Thiazoles. The editors have built Thiazoles: Advances in Research and Application: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Thiazoles in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Thiazoles: Advances in Research and Application: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Deformation Characteristics of Geomaterials / Comportement Des Sols Et Des Roches Tendres Jul 17 2022 The main themes of this conference are experimental investigations into deformation properties - from very small strains to beyond failure, laboratory, in-situ and field observation interpretations, and behaviour characterization and modelling. Emphasis is placed on exploring recent investigations into time-related stresses, and on applying advanced geotechnical testing to real engineering problems.

Weltmünzkatalog 21. Jahrhundert 2001 – 2016 Jul 05 2021 Auf den letzten Stand gebracht: Das deutschsprachige Mammutwerk umfasst die offiziellen Münzprägungen der ganzen Welt vom Ende des 20. Jahrhunderts bis 2017 aus 219 Ländern. Diese dritte Auflage des Weltmünzkatalogs 21. Jahrhundert wurde komplett neu bearbeitet. Sie berücksichtigt neueste numismatische Erkenntnisse und bietet eine detaillierte Auflistung aller Münzneuheiten. Sämtliche Preisbewertungen entstammen jüngsten Auktionsergebnissen und konsolidierten Marktbewertungen. Mit Schön- und Krause-Mishler- bzw. Yeoman-Nummern.

Coconut Water May 03 2021 Coconut water, a naturally-canned tropical beverage, has been gaining popularity in recent years and has drawn the attention world over as a natural and nutritional wellness beverage. The research published thus far on coconut water has mainly focused on its specific uses, biochemical composition and health benefits as well as processing and preservation techniques and has been published mostly in journal articles. Only a few books covering a wide spectrum of coconut water for health and wellness are currently available. This work offers a comprehensive and fully updated overview of coconut water from processing techniques to value addition to safety to nutritional benefits and beyond. Coconut Water: Processing, Distribution & Nutritional Benefits provides in-depth details on all of the major processing techniques required to produce and maintain a quality product free of contamination and adulteration. The book covers the standards of coconut water production and distribution in various countries enabling the processors and exporters to manufacture and export for better revenue realization. The book also provides details of patents related to coconut water granted to researchers. Another important aspect of this work is comprehensive coverage on the various nutritional and health benefits of coconut water consumption as well as on the value addition (traditional and innovative products). In markets across the world, consumers of all ages have been turning to coconut water for its taste and nutritional benefits. This book will provide researchers, processors and exporters the comprehensive information needed to produce and market quality, nutritional coconut water for consumers.

Environmental Chambers Jan 23 2023

NETWORKING 2008 Ad Hoc and Sensor Networks, Wireless Networks, Next Generation Internet Jun 23 2020 This book constitutes the refereed proceedings of the 7th International IFIP-TC6 Networking Conference, NETWORKING 2008, held in Singapore, in May 2008. The 82 revised full papers were carefully reviewed and selected from numerous submissions for inclusion in the book. The papers are organized in topical sections on ad hoc and sensor networks: design and optimization, MAC protocol, overlay networking, and routing; next generation internet: authentication, modeling and performance evaluation, multicast, network measurement and testbed, optical networks, peer-to-peer and overlay networking, peer-to-peer services, QoS, routing, security, traffic engineering, and transport protocols; wireless networks: MAC performance, mesh networks, and mixed networks.

Telematics and Computing May 15 2022 This book constitutes the thoroughly refereed proceedings of the 9th International Congress on Telematics and Computing, WITCOM 2020, held in Puerto Vallarta, Mexico, in November 2020. Due to the COVID-19 pandemic the conference was held online. The 28 full papers and 3 short papers in this volume were carefully reviewed and selected from 79 submissions. The papers are focused on the topics of deep and machine learning, cybersecurity, wireless networks, computer vision, communications, and education applied to different sceneries of study and COVID-19.

Models in Software Engineering Jul 25 2020 This book presents a comprehensive documentation of the scientific outcome of 14 satellite events held at the 13th International Conference on Model-Driven Engineering, Languages and Systems, MODELS 2010, held in Oslo, Norway, in October 2010. Besides the 21 revised best papers selected from 12 topically focused workshops, the post-proceedings also covers the doctoral symposium and the educators symposium; each of the 14 satellite events covered is introduced by a summary of the respective organizers. All relevant current aspects in model-based systems design and analysis are addressed. This book is the companion of the MODELS 2010 main conference proceedings LNCS 6394/6395.

NASA Technical Note Mar 01 2021

Report on the ... International Technical Conference on Experimental Safety Vehicles Sep 26 2020

The Use of Drag Modulation to Limit the Rate at which Deceleration Increases During Nonlifting Entry Jan 31 2021

Membrane Computing Oct 28 2020 This book constitutes the thoroughly refereed post-conference proceedings of the 13th International Conference on Membrane Computing, CMC 2012, held in Budapest, Hungary, in August 2012. The 21 revised selected papers presented together with 6 invited lectures were carefully reviewed and selected from 25 papers presented at the conference. The book also deals with membrane systems, also called P systems, which are distributed and parallel algebraic models processing multisets of objects in a localized manner (evolution rules and evolving objects are encapsulated into compartments delimited by membranes), with an essential role played by the communication among compartments and with the environment.

Diversity in the Neuronal Machine Nov 09 2021 This book is a colorful journey into the fascinatingly diverse world of interneurons, an important class of highly heterogeneous cells found in all cortical neuronal networks. Interneurons are known to play key roles in many brain functions, from sensory processing to neuronal oscillations linked to learning and memory. The central aim of the volume is to provide new insights into the striking degree of cellular diversity found in interneuronal microcircuits. The book discusses the history of research into interneuronal variability, the developmental origins of interneuronal diversity, the functional roles of heterogeneity in neuronal circuits, contemporary interneuronal classification systems, and the genetic and homeostatic mechanisms that shape the degree of cell to cell variability within interneuronal populations. It elaborates on new ideas about interneuronal diversity that rest upon theoretical and experimental results, with arguments touching upon evolution, animal behavior, and the mathematical theory of small world networks. This engaging volume is invaluable to neuroscientists and others interested in how neuronal networks function; electrical engineers, computational modelers, and physicists interested in neuronal network theory; neurologists and psychiatrists working on mechanisms of neurological and psychiatric disorders; and students and trainees in all of these fields.

Advances in Unsaturated Soils Aug 06 2021 New theories and testing techniques related with Unsaturated Soil Mechanics have proven to be valuable tools to study a broad spectrum of geo-materials which includes rocks, rock fills, frozen soils and domiciliary solid wastes. These new theories and testing techniques have permitted the analysis of several traditional problems from a new perspective (e.g., swelling or collapsible soils and compacted soils or pavements materials), and they have also shown their efficiency to study new energy-related problems like CO2 sequestration and nuclear waste disposal. Advances in Unsaturated Soils is a collection of papers from the 1st Pan-American Conference on Unsaturated Soils organized in Cartagena de Indias, Colombia, in February 2013. The volume includes 76 research papers coming for all over the world, as well as 7 keynotes papers by well known international researchers. The contributions present a variety of topics including: • Advances in testing techniques • Unsaturated soil behavior • Constitutive modeling and microstructure • Numerical modeling • Geotechnical problems Advances in Unsaturated Soils is expected to become a useful reference to academics and professionals involved in Unsaturated Soil Mechanics.

Air Force Manual Feb 24 2023

Climatological Data Feb 18 2020

Diterpenes—Advances in Research and Application: 2012 Edition Jan 19 2020 Diterpenes—Advances in Research and Application: 2012 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Diterpenes. The editors have built Diterpenes—Advances in Research and Application: 2012 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Diterpenes in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Diterpenes—Advances in Research and Application: 2012 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Food Hygiene, Microbiology and HACCP Oct 20 2022 Food microbiology is a fascinating and challenging science. It is also very demanding with a constantly changing sea of guidelines, regulations and equipment. Public concerns over food safety issues can overemphasize certain risks and detract from the normal hygienic practice of food manufacturers. This new edition aims to update anyone concerned with the hygienic production of food on key issues of HACCP, food microbiology and the methods of microbe detection. I have taken a 'crystal ball' approach to certain topics. The use of rapid techniques such as lux gene technology and polymerase chain reaction (DNA probes) are progressing so rapidly in the research laboratory that when this book is in print the techniques may be more readily available. New methods for investigating viral gastroenteritis due to small round structured viruses (SRSV) have been developed past the 'research' stage and may become more standard in the next few years. Undoubtedly this will alter our understanding of the prevalence of viral food poisoning. I have also included issues such as new variant CJD (associated with BSE infected cattle) which at the time of writing has only caused the deaths of 20 people, but due to the uncertain incubation time could be a far more serious problem. In the UK there has been a much publicised outbreak of Escherichia coli 0157:H7 which has resulted in a government inquiry and the recommendation of the generic HACCP approach. Hence this approach to HACCP implementation has been included.

Appendix to the Journals of the House of Representatives of New Zealand Aug 18 2022

New Living Heart Diet Jun 16 2022 From good old American favorites to vegetarian and delicious ethnic dishes, this cookbook includes more than 300 tasty recipes for healthful eating--presented by the team that focused America's attention on a heart-healthy diet. Includes charts throughout. National ads/media.

Highway Safety Literature Apr 21 2020

Industrial Chocolate Manufacture and Use Sep 07 2021

Management of Antimicrobials in Infectious Diseases Dec 22 2022 Arch Mainous III, PhD, Claire Pomeroy, MD, and a panel of experienced physicians offer an eminently practical summary of the most effective evidence-based antimicrobial treatments encountered in both hospital and outpatient settings. Focusing on the clinical impact of appropriate diagnosis and treatment, the book emphasizes those newer aspects of infectious disease management necessitated by the growing problem of antibiotic resistance. It also discusses the major pathogens involved so that practicing clinicians will not only diagnose, but also better treat the infections and complications they cause. Multidisciplinary and highly practical, Management of Antimicrobials in Infectious Diseases: Impact of Antibiotic Resistance offers busy clinicians and nurse practitioners a comprehensive and informed guide to navigating the difficult treatment decisions created by the rising tide of antibiotic resistance today.

International Ultraviolet Explorer (IUE) Ultraviolet Spectral Atlas of Selected Astronomical Objects Oct 08 2021 A quick reference for the ultraviolet spectra of many categories of astronomical objects. Shows reflected sunlight from the Moon, planets, and asteroids, and emission from comets. Contains the spectra for: pre-main sequence stars, chemically peculiar stars, pulsating variables, subluminoous stars, and Wolf-Rayet stars. Presents phenomena such as the chromospheric and transition region emissions from late-type stars; composite spectra of stars, gas streams, accretion disks and gas envelopes of binary systems; the behavior of gas ejecta shortly after the outburst of novae and supernovae; and the H II regions, planetary nebulae, and supernova remnants. Population 2 stars, globular clusters, and luminous stars in the Magellanic Clouds, M31, and M33, are included. Finally, gives the ultraviolet spectra of galaxies of different Hubble types and of active galaxies.

Tubular Structures XV Jun 04 2021 Tubular Structures XV contains the latest scientific and engineering developments in the field of tubular structures, as presented at the 15th International Symposium on Tubular Structures (ISTS15, Rio de Janeiro, Brazil, 27-29 May 2015). The International Symposium on Tubular Structures (ISTS) has a long-standing reputation for being the principal

Food Microbiology and Hygiene Apr 14 2022 The aims of this book remain the same, that is, that it should be of interest to all those people concerned with, or about, food hygiene in the broadest sense. There was clearly a need for a book of this sort and its success has necessitated a second edition. It will, I hope, answer criticisms that were justifiably made about certain omissions and shortcomings levelled at the earlier edition. The whole book has been thoroughly revised with the introduction of several new sections to various chapters. During the time that has elapsed since the earlier edition appeared there has been much publicity about newer forms of 'food poisoning'. Thus listeriosis is discussed in some detail whilst the problems of salmonellas in eggs and BSE are also considered. Interest in irradiated foods has waxed and waned but it is rightly included in the relevant chapter. There has been much progress in methodology with the advent of advanced molecular techniques such as gene probes and that of PCR; these are discussed briefly. I have included sections on HACCP which has come into great prominence in recent years thus answering a specific criticism made of the earlier edition. The chapter on water and waste disposal contains material on Legionnaires' disease and cryptosporidiosis, infections of much concern at the present time. Finally, the chapter on legislation has undergone a major revision with far greater emphasis being placed on EC food hygiene legislation.

Computer Vision in Control Systems-I Nov 16 2019 This book is focused on the recent advances in computer vision methodologies and technical solutions using conventional and intelligent paradigms. The Contributions include: · Morphological Image Analysis for Computer Vision Applications. · Methods for Detecting of Structural Changes in Computer Vision Systems. · Hierarchical Adaptive KL-based Transform: Algorithms and Applications. · Automatic Estimation for Parameters of Image Projective Transforms Based on Object-invariant Cores. · A Way of Energy Analysis for Image and Video Sequence Processing. · Optimal Measurement of Visual Motion Across Spatial and Temporal Scales. · Scene Analysis Using Morphological Mathematics and Fuzzy Logic. · Digital Video Stabilization in Static and Dynamic Scenes. · Implementation of Hadamard Matrices for Image Processing. · A Generalized Criterion of Efficiency for Telecommunication Systems. The book is directed to PhD students, professors, researchers and software developers working in the areas of digital video processing and computer

vision technologies.

Report Nov 21 2022

Transmission and Distribution Oct 16 2019 The book covers all the aspects of Transmission and Distribution for undergraduate course. The various aspects of transmission and distribution systems, FACTS, sag calculations, parameters and performance of transmission lines, insulators, cables, substations and grounding systems are explained in the book with the help of comprehensive approach. The book starts with the discussion of basics of power system. It includes comparison of material required for overhead and underground systems. Various types of d.c. and a.c. distribution systems, EHVAC, HVDC and FACTS devices is also included in the book. The book explains the sag calculation under different conditions and sag template. In depth analysis of transmission line parameters is also included in the book. The book also covers the performance analysis of short, medium and long transmission lines along with circle diagram and methods of voltage control. The details of corona effect are explained in support. The book incorporates the discussion of types of insulators, string efficiency, methods of improving string efficiency, single and three core cables, grading of cables, heating and testing of cables. The chapter on substations includes the explanation of various types of substations, substation equipment's and key diagrams. The book also covers the various types of grounding systems, grounding grids and resistance of grounding systems. The book uses plain and lucid language to explain each topic. The book provides the logical method of explaining the various complicated topics and stepwise methods to make the understanding easy. Each chapter is well supported with necessary illustrations, self-explanatory diagrams and large number of solved problems. The book explains the philosophy of the subject which makes the understanding of the concepts very clear and makes the subject more interesting.

Mechanical Behaviour of Soils Under Environmentally-Induced Cyclic Loads Dec 10 2021 T. Wichtmann, T. Triantafyllidis: Behaviour of granular soils under environmentally induced cyclic loads. - D. Muir Wood: Constitutive modelling. - C. di Prisco: Creep versus transient loading effects in geotechnical problems. - M. Pastor et al.: Mathematical models for transient, dynamic and cyclic problems in geotechnical engineering. - M. Pastor: Discretization techniques for transient, dynamics and cyclic problems in geotechnical engineering: first order hyperbolic partial differential equations. - M. Pastor et l.: Discretization techniques for transient, dynamic and cyclic problems in geotechnical engineering: second order equation. - C. di Prisco: Cyclic mechanical response of rigid bodies interacting with sand strata. - D. Muir Wood: Macroelement modelling. - M. F. Randolph: Offshore design approaches and model tests for sub-failure cyclic loading of foundations. - M.F. Randolph: Cyclic interface shearing in sand and cemented solis and application to axial response of piles. - M. F. Randolph: Evaluation of the remoulded shear strength of offshore clays and application to pipeline-soil and riser-soil interaction. The book gives a comprehensive description of the mechanical response of soils (granular and cohesive materials) under cyclic loading. It provides the geotechnical engineer with the theoretical and analytical tools necessary for the evaluation of settlements developng with time under cyclic, einvironmentally idncued loads (such as wave motion, wind actions, water table level variation) and their consequences for the serviceability and durability of structures such as the shallow or deep foundations used in offshore engineering, caisson beakwaters, ballast and airport pavements and also to interpret monitoring data, obtained from both natural and artificial slopes and earth embankments, for the purposes of risk assessment and mitigation.

Climatological Data for the United States by Sections Nov 28 2020 Collection of the monthly climatological reports of the United States by state or region, with monthly and annual national summaries.

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