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Detection and Spectrometry of Faint Light Optical Emission Spectrometers Intermediate Image Pair Spectrometer Measurements of the Electromagnetic Radiations from Some Light Nuclei Introduction to Imaging Spectrometers The Basics of Spectroscopy Optical Emission Spectrometers The Design of Optical Spectrometers Arduino Fun with Light and Spectrometers Portable Spectroscopy and Spectrometry, Technologies and Instrumentation Vacuum Ultraviolet Spectroscopy Portable Spectroscopy and Spectrometry, Applications Encyclopedia of Applied Physics, Unified Field Theories to Zeeman and Stark Effects Spectrometers and Goniometers for General Work Neutron-gamma Ray Spectrometer Fundamentals of Dispersive Optical Spectroscopy Systems Encyclopedia of Spectroscopy and Spectrometry A Lead Glass Cerenkov Radiation Photon Spectrometer Optical Spectroscopy in Chemistry and Life Sciences Imaging Spectrometry Encyclopedia of Spectroscopy Hadamard transform optics Performance Analysis of Standard Fourier-Transform Spectrometers. Fourier Transform Infrared Spectrometry Electron Spin Resonance Spectrometers Tuning Fork Choppers for Infrared Spectrometers Raman Spectroscopy and its Application in Nanostructures Imaging Spectrometer Instrumentation Amplitude Distribution Spectrometers OCM 2021 - Optical Characterization of Materials : Conference Proceedings Encyclopedia of Spectroscopy and Spectrometry A Neutron Time-of-flight Spectrometer (thesis) In Situ High Sensitivity Brillouin Light Scattering Spectrometer for MBE-Grown Thin Films Spectrometric Techniques Tables of Wavenumbers for the Calibration of Infrared Spectrometers To Measure the Sky Background Processes in the Electrostatic Spectrometers of the KATRIN Experiment Introduction to Experimental Infrared Spectroscopy Development of Mercuric Iodide Uncooled X Ray Detectors and Spectrometers Optics Essentials Optical Fiber Sensors

Detection and Spectrometry of Faint Light 2012-12-06 the aim of this book is to bridge the gap between the pure instrumental physicist and the user of detectors and spectrometers the essential parameters describing the performance of these devices are identified and the designs of a wide variety of practical instruments are illustrated working on topical problems the author has spent 14 years designing and applying spectrometers in the visible and near infra red domains predominantly to investigate gaseous nebulae most recently he has designed for instance a large 15 x is in ha interference filter for the src 48 in schmidt camera insect eye fabry perot spectrographs image tube filter cameras a sisam monochromator a three beam fabry perot monochromator collaboratively for the iso in anglo australian telescope and a two etalon pepsios type monochromator consequently emphasis in this book is placed on devices useful from the ultra violet to the infra red likewise many of the illustrations are drawn from astronomy however most of the ideas that are presented invariably have applications in other branches of science and wavelength domains

Optical Emission Spectrometers 1972 the increased interest in imaging spectroscopy has arisen largely for technical reasons this tutorial text first reviews the required background in optics radiometry imaging spectral sensing and focal plane arrays then the principles of these subjects are applied to several specific problems to illustrate the way in which such instruments can be designed

Intermediate Image Pair Spectrometer Measurements of the Electromagnetic Radiations from Some Light Nuclei 1960 spectroscopy the study of matter using electromagnetic radiation and its applications as a scientific tool are the focus of this tutorial topics covered include the interaction of light with matter spectrometer fundamentals quantum mechanics selection rules and experimental factors

Introduction to Imaging Spectrometers 1997 this is a book with the aim of helping your realise the potential of the arduino and allowing you to create applications that transfer live data back to you pc ready for analysis and manipulation in this book you will find ways to create games and tools such as a spectrometer for use in education or just for fun

The Basics of Spectroscopy 2001 provides complete and up to date coverage of the foundational principles enabling technologies and specific instruments of portable spectrometry portable spectroscopy and spectrometry volume one is both a timely overview of the miniature technologies used in spectrometry and an authoritative guide to the specific instruments employed in a wide range of disciplines this much needed resource is the first comprehensive work to describe the enabling technologies of portable spectrometry explain how various handheld and portable instruments work discuss their potential limitations and provide clear guidance on optimizing their utility and accuracy in the field in depth chapters written by a team of international authors from a wide range of disciplinary backgrounds have been carefully reviewed both by the editors and by third party experts to ensure their quality and completeness volume one begins with general discussion of portable spectrometer engineering before moving through the electromagnetic spectrum to cover x ray fluorescence xrf uv visible near infrared mid infrared and raman spectroscopies subsequent chapters examine microplasmas laser induced breakdown spectroscopy libs nuclear magnetic resonance nmr spectroscopy and a variety of portable mass spectrometry instrument types featuring detailed chapters on dna instrumentation and biological analyzers topics of intense interest in light of the global coronavirus pandemic this timely volume provides comprehensive coverage of the principles and instruments central to portable spectroscopy includes contributions by experienced professionals working in instrument companies universities research institutes the military and hazardous material teams discusses special topics such as smartphone spectroscopy optical filter technology stand off detection and mems moems technology covers elemental spectroscopy optical molecular spectroscopy mass spectrometry and molecular and imaging technologies portable spectroscopy and spectrometry volume one is an indispensable resource for developers of portable instruments civilian and government purchasers and operators and teachers and students of portable spectroscopy when combined with volume two which focuses on the multitude of applications of portable

instrumentation portable spectroscopy and spectrometry provides the most thorough coverage of the field currently available

Optical Emission Spectrometers 1972 techniques of vacuum ultraviolet spectroscopy was first published in 1967 in the three decades since the techniques associated with vacuum ultraviolet spectroscopy have been greatly expanded originally published as two volumes in the serial experimental methods in the physical sciences vacuum ultraviolet spectroscopy combines in one paperback volume information on the many advances in vacuum ultraviolet vuv research in addition the book provides students and researchers with concise reviews of the important aspects of designing experiments in the vuv region this is the only comprehensive treatise describing the use of synchrotron and other light sources for research along with the new technologies in optical elements multilayers mirror coatings soft x ray zone plates vuv detectors interferometric spectrometers and subjects such as spectromicroscopy lithography and photon induced fluorescence vacuum ultraviolet spectroscopy is an ideal handbook both for the beginner and for the experienced researcher in any field requiring the use of vuv radiation key features detailed review of synchrotron radiation sources including undulators and wigglers comprehensive outline of monochromator design concise review of optics theory for multilayers spectrometers and zone plates information about other important vuv sources such as laser produced plasmas and electron beam ion trap ebit sources applications such as spectromicroscopy lithography and fluorescence

The Design of Optical Spectrometers 1969 the most comprehensive resource available on the many applications of portable spectrometers including material not found in any other published work portable spectroscopy and spectrometry volume two is an authoritative and up to date compendium of the diverse applications for portable spectrometers across numerous disciplines whereas volume one focuses on the specific technologies of the portable spectrometers themselves volume two explores the use of portable instruments in wide range of fields including pharmaceutical development clinical research food analysis forensic science geology astrobiology cultural heritage and archaeology volume two features contributions by a multidisciplinary team of experts with hands on experience using portable instruments in their respective areas of expertise organized both by instrumentation type and by scientific or technical discipline 21 detailed chapters cover various applications of portable ion mobility spectrometry ims infrared and near infrared nir spectroscopy raman and x ray fluorescence xrf spectroscopy smartphone spectroscopy and many others filling a significant gap in literature on the subject the second volume of portable spectroscopy and spectrometry features a significant amount of content published for the first time or not available in existing literature brings together work by authors with assorted backgrounds and fields of study discusses the central role of applications in portable instrument development covers the algorithms calibrations and libraries that are of critical importance to successful applications of portable instruments includes chapters on portable spectroscopy applications in areas such as the military agriculture and feed hazardous materials hazmat art conservation and environmental science portable spectroscopy and spectrometry volume two is an indispensable resource for developers of portable instruments in universities research institutes instrument companies civilian and government purchasers trainers operators of portable instruments and educators and students in portable spectroscopy courses

Arduino Fun with Light and Spectrometers 2016-10-23 the 23 volume encyclopedia of applied physics eap is a monumental first in scope depth and usability it demonstrates the synergy between physics and technological applications information is presented according to the following subject areas general aspects mathematical and information techniques measurement sciences general devices and or methods nuclear and elementary particle physics atomic and molecular physics electricity and magnetism optics classical and quantum acoustics thermodynamics and properties of gases fluids and plasma physics condensed matter structure and mechanical properties thermal acoustic and quantum properties electronic properties magnetic properties dielectrical and optical properties surfaces and interfaces materials science

physical chemistry energy research and environmental physics biophysics and medical physics geophysics meteorology space physics and aeronautics eap consists of 20 hardcover volumes arranged alphabetically a cumulative subject index will be published after every three volumes with a full index accompanying the complete work

Portable Spectroscopy and Spectrometry, Technologies and Instrumentation 2021-03-31 a neutron gamma ray spectrometer developed at texas nuclear corporation is described the spectrometer employs pulse shape discrimination in an organic scintillator detector to selectively detect neutrons or gamma rays in a mixed field by a method not utilizing space charge limiting selective detection may be obtained for neutrons of energy higher than 0 7 mev and for gamma rays above 0 25 mev spectral information is usable to 15 mev for neutrons and to 4 mev for gamma rays detection efficiencies range from about 6 to 30 typical spectra data analysis procedure and operating characteristics of the spectrometer are presented

Vacuum Ultraviolet Spectroscopy 2000-12-21 bridging the gap between basic theoretical texts and specific system recommendations fundamentals of dispersive optical spectroscopy systems addresses the definition design justification and verification of instrumentation for optical spectroscopy with an emphasis on the application and realization of the technology the optical spectroscopy solutions discussed within use dispersive spectrometers that primarily involve diffraction gratings topics include dispersive elements detectors illumination calibration and stray light this book is suitable for students and for professionals looking for a comprehensive text that compares theoretical designs and physical reality during installation

Portable Spectroscopy and Spectrometry, Applications 2021-03-29 the second edition of the encyclopedia of spectroscopy and spectrometry pulls key information into a single source for quick access to answers and or in depth examination of topics spec 2 covers theory methods and applications for researchers students and professionals combining proven techniques and new insights for comprehensive coverage of the field the content is available in print and online via sciencedirect the latter of which offers optimal flexibility accessibility and usability through anytime anywhere access for multiple users and superior search functionality no other work gives analytical and physical bio chemists such unprecedented access to the literature with 30 new content spec 2 maintains the authoritative balanced coverage of the original work while also breaking new ground in spectroscopic research incorporates more than 150 color figures 5 000 references and 300 articles 30 of which are new for a thorough examination of the field highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health features a new co editor david koppenaal of pacific northwest national laboratory washington usa whose work in atomic mass spectrometry has been recognized internationally

Encyclopedia of Applied Physics, Unified Field Theories to Zeeman and Stark Effects 1998-04-23 this book is a compact and simultaneously comprehensive introduction to the theory and practice of optical spectroscopy the author skillfully leads the reader from the basics to practical applications the main topics covered are theory of optical spectroscopy components of spectrometers light sources filters lenses and mirror chromators detectors cuvettes evaluation of data and interpretation of spectra such important methods as absorption and luminescence spectroscopy scattering and reflection spectroscopy photoaccustic spectroscopy spectroscopy of atoms polarimetry and near infrared spectroscopy are covered in depth a useful appendix with the addresses of pertinent equipment manufacturers rounds off the work

Spectrometers and Goniometers for General Work 1913 a significant step forward in the world of earth observation was made with the development of imaging spectrometry imaging spectrometers measure reflected solar radiance from the earth in many narrow spectral bands such a spectroscopical imaging system is capable of detecting subtle absorption bands in the reflectance spectra and measure the reflectance spectra of various objects with a very high accuracy as a result imaging spectrometry enables a better identification of

objects at the earth surface and a better quantification of the object properties than can be achieved by traditional earth observation sensors such as landsat tm and spot the various chapters in the book present the concepts of imaging spectrometry by discussing the underlying physics and the analytical image processing techniques the second part of the book presents in detail a wide variety of applications of these new techniques ranging from mineral identification mapping of expansive soils land degradation agricultural crops natural vegetation and surface water quality additional information on extras springer com sample hyperspectral remote sensing data sets and envi viewing software freelook are available on extras springer com

Neutron-gamma Ray Spectrometer 1962 covers spectroscopic principles methods and applications ranging from atomic to molecular spectroscopy many entries on instrumentations will help in trouble shooting spectrometers

Fundamentals of Dispersive Optical Spectroscopy Systems 2014-01-01 hadamard transform optics focuses on hadamard transform optics and hadamard encoded optical instruments the techniques developed to date are described and a unified mathematical treatment that should facilitate comparisons between different classes of instruments is presented with this approach encoded hadamard transform spectrometers are discussed in very much the same way as encoded imaging devices the advantages offered by singly and multiply encoded instruments designed for a wide variety of purposes are also considered this book is comprised of seven chapters and begins with an introduction to optical multiplexing techniques as well as the connections with weighing designs along with the best masks for use in optical instruments and the improvement in signal to noise ratio that should be produced by multiplexing spectrometers which make use of multiplexing including the michelson and mach zehnder interferometers and golay s multislit spectrometers are then described subsequent chapters deal with the basic theory of hadamard transform spectrometers and imagers factors that affect the signal to noise ratio and instrumental considerations and systematic errors in instruments the final chapter looks at some of the applications of hadamard transform optics including image processing and in fields such as astronomy and medicine this monograph will be a useful resource for physicists

Encyclopedia of Spectroscopy and Spectrometry 2010-04-09 a bestselling classic reference now expanded and updated to cover the latest instrumentation methods and applications the second edition of fourier transform infrared spectrometry brings this core reference up to date on the uses of ft ir spectrometers today the book starts with an in depth description of the theory and current instrumentation of ft ir spectrometry with full chapters devoted to signal to noise ratio and photometric accuracy many diverse types of sampling techniques and data processing routines most of which can be performed on even the less expensive instruments are then described extensively updated the second edition discusses improvements in optical components features a full chapter on ft raman spectrometry contains new chapters that focus on different ways of measuring spectra by ft ir spectrometry including fourteen chapters on such techniques as microspectroscopy internal and external reflection and emission and photoacoustic spectrometry includes a new chapter introducing the theory of vibrational spectrometry organizes material according to sampling techniques designed to help practitioners using ft ir capitalize on the plethora of techniques for modern ft ir spectrometry and plan their experimental procedures correctly this is a practical hands on reference for chemists and analysts it s also a great resource for students who need to understand the theory instrumentation and applications of ft ir

A Lead Glass Cerenkov Radiation Photon Spectrometer 1956 raman spectroscopy and its application in nanostructures is an original and timely contribution to a very active area of physics and materials science research this book presents the theoretical and experimental phenomena of raman spectroscopy with specialized discussions on the physical fundamentals new developments and main features in low dimensional systems of raman spectroscopy in recent years physicists materials scientists and chemists have devoted increasing attention to low dimensional systems and as raman spectroscopy can be used to study and analyse such materials as carbon nanotubes quantum wells silicon

nanowires etc it is fast becoming one of the most powerful and sensitive experimental techniques to characterize the qualities of such nanostructures recent scientific and technological developments have resulted in the applications of raman spectroscopy to expand these developments are vital in providing information for a very broad field of applications for example in microelectronics biology forensics and archaeology thus this book not only introduces these important new branches of raman spectroscopy from both a theoretical and practical view point but the resulting effects are fully explored and relevant representative models of raman spectra are described in depth with the inclusion of theoretical calculations when appropriate

Optical Spectroscopy in Chemistry and Life Sciences 2005-08-26 concisely summarizing imaging spectrometer instrumentation this book divides current imaging spectrometer modalities into two tiers the first tier describes how any given spectrometer acquires spectral data specifically using frequency or time domain techniques the second tier explains how the spectrometer divides the light after entering the system each instrument s introduction includes a system schematic as well as a discussion of theoretical foundations calibration issues and design considerations the book also explores common spectral processing algorithms and provides a comparison between the different forms of instrumentation

Imaging Spectrometry 2007-07-27 fundamental studies in engineering 3 amplitude distribution spectrometers reviews amplitude or pulse height distribution analyzers both single and multichannel types and spectrometers along with their construction and operation it discusses the basic parameters of electrical impulses the general parameters of amplitude distribution spectrometers the conventional methods of analyzing amplitude distribution by means of single channel spectrometers analysis of amplitude spectra using computer methods and methods and devices for multiparameter amplitude analysis comprised of eight chapters this volume begins with an overview of physical phenomena that can be represented in the form of electrical impulses arising in transducers of physical quantities it then discusses the use of pulse height spectrometers to determine the height distributions of electrical impulses trends in the development of pulse height spectrometers conventional pulse height analysis and multispectral scaling the reader is methodically introduced to the analysis of gaussian distributions fourier transform analysis and measuring units used in preliminary signal processing other chapters focus on spectrogram recording methods methods of spectrum averaging computer methods of spectral analysis and methods of recording multi parameter spectrograms the book concludes with a review of the use of pulse height spectrometers in a wide range of fields such as medicine biology astronomy nuclear research space research and physico chemical research users of amplitude spectrometers in various fields of science and technology will find this book extremely useful

Encyclopedia of Spectroscopy 1995-03-07 the state of the art in the optical characterization of materials is advancing rapidly new insights have been gained into the theoretical foundations of this research and exciting developments have been made in practice driven by new applications and innovative sensor technologies that are constantly evolving the great success of past conferences proves the necessity of a platform for presentation discussion and evaluation of the latest research results in this interdisciplinary field

Hadamard transform optics 2012-12-02 this third edition of the encyclopedia of spectroscopy and spectrometry three volume set provides authoritative and comprehensive coverage of all aspects of spectroscopy and closely related subjects that use the same fundamental principles including mass spectrometry imaging techniques and applications it includes the history theoretical background details of instrumentation and technology and current applications of the key areas of spectroscopy the new edition will include over 80 new articles across the field these will complement those from the previous edition which have been brought up to date to reflect the latest trends in the field coverage in the third edition includes atomic spectroscopy electronic spectroscopy fundamentals in spectroscopy high energy

spectroscopy magnetic resonance mass spectrometry spatially resolved spectroscopic analysis vibrational rotational and raman spectroscopies the new edition is aimed at professional scientists seeking to familiarize themselves with particular topics quickly and easily this major reference work continues to be clear and accessible and focus on the fundamental principles techniques and applications of spectroscopy and spectrometry incorporates more than 150 color figures 5 000 references and 300 articles for a thorough examination of the field highlights new research and promotes innovation in applied areas ranging from food science and forensics to biomedicine and health presents a one stop resource for quick access to answers and an in depth examination of topics in the spectroscopy and spectrometry arenas

Performance Analysis of Standard Fourier-Transform Spectrometers. 2007-03-16 this research problem consists in the construction of an apparatus for measuring neutron total cross sections and in making some measurements which would serve to prove its performance and detect hitherto unoberserved neutron resonances in separated isotope samples

Fourier Transform Infrared Spectrometry 2013-12-19 this instrumentation project involved the purchase of a high resolution six pass tandem fabry perot interferometer a 200 nw frequency doubled nd yag laser a custom designed uhv chamber a cryogenic sample manipulator and associated vacuum hardware for interfacing this chamber with the mbe system therefore we have completed all of the design purchasing and construction of the equipment needed to complete this project and add the bls capability on our existing afm stm mbe system

Electron Spin Resonance Spectrometers 1966 tables of wavenumbers for the calibration of infrared spectrometers second edition is a compilation of tables of wavenumber values for the calibration of infrared spectrometers it makes the best use of high resolution results and integrates the far infrared data with the higher frequency values this book is organized in two parts one for high to medium resolution spectrometers used by physical chemists and physicists and the other for medium to low resolution instruments employed by organic and inorganic chemists the first part includes tables of wavenumber of infrared absorption lines in spectra of gaseous molecules as well as procedures for using the tables including the calibration curve method the method of overlapping orders superposition method and atomic line method the calibration tables are illustrated by infrared spectra obtained under a variety of conditions the second part includes vapor liquid and solid phase calibrants for small spectrometers this monograph will be a valuable resource for physicists chemists and spectroscopists

Tuning Fork Choppers for Infrared Spectrometers 2012-01-24 with a lively yet rigorous and quantitative approach this textbook introduces the fundamental topics in optical observational astronomy for undergraduates it explains the theoretical foundations for observational practices and reviews essential physics to support students mastery of the subject student understanding is strengthened through over 120 exercises and problems

Raman Spectroscopy and its Application in Nanostructures 2016-02-15 neutrinos continue to be the most mysterious and arguably the most fascinating particles of the standard model as their intrinsic properties such as absolute mass scale and cp properties are unknown the open question of the absolute neutrino mass scale will be addressed with unprecedented accuracy by the karlsruhe tritium neutrino katrin experiment currently under construction this thesis focusses on the spectrometer part of katrin and background processes therein various background sources such as small penning traps as well as nuclear decays from single radon atoms are fully characterized here for the first time most importantly however it was possible to reduce the background in the spectrometer by more than five orders of magnitude by eliminating penning traps and by developing a completely new background reduction method by stochastically heating trapped electrons using electron cyclotron resonance ecr the work beautifully demonstrates that the obstacles and challenges in measuring the absolute mass scale of neutrinos can be met successfully if novel experimental tools ecr and novel computing methods kassiopeia are combined to allow almost

background free tritium ß spectroscopy

Imaging Spectrometer Instrumentation 2012-12-02 infrared spectroscopy is generally understood to mean the science of spectra relating to infrared radiation namely electromagnetic waves in the wavelength region occurring intermediately between visible light and microwaves measurements of infrared spectra have been providing useful information for a variety of scientific research and industrial studies for over half a century this is set to continue in the foreseeable future introduction to experimental infrared spectroscopy is intended to be a handy guide for those who have no or limited experience in infrared spectroscopic measurements but are utilising infrared related methods for their research or in practical applications written by leading researchers and experienced practitioners this work consists of 22 chapters and presents the basic theory methodology and practical measurement methods including atr photoacoustic ir imaging nir 2d cos and vcd the six appendices will aid readers in understanding the concepts presented in the main text written in an easy to understand way this book is suitable for students researchers and technicians working with infrared spectroscopy and related methods

Amplitude Distribution Spectrometers 2021-03-17 the results obtained in the development of miniature lowpower light weight mercuric iodide hgi2 x ray spectrometers for future space missions are summarized it was demonstrated that hgi2 detectors can be employed in a high resolution x ray spectrometer operating in a scanning electron microscope also the development of hgi2 x ray detectors to augment alpha backscattering spectrometers is discussed these combination instruments allow for the identification of all chemical elements with the possible exception of hydrogen and their respective concentrations additionally further investigations of questions regarding radiation damage effects in the hgi2 x ray detectors are reported iwanczyk jan s unspecified center nagw 1401

OCM 2021 - Optical Characterization of Materials : Conference Proceedings 2016-09-22 a valuable reference for understanding basic optical principals need a crash course in optics if you are a non specialist with little or no knowledge of optical components systems or hardware who suddenly finds it necessary to work with optics in your given field then optics essentials an interdisciplinary guide is the book for you aimed at engineers and other interdisciplinary professionals tackling optics related challenges this text provides a basic overview of optical principles concepts and applications as well as worked examples throughout it enables readers to gain a basic understanding of optics and sense of optical phenomena without having to commit to extended periods of study contains matlab simulations and suggested experiments the book provides matlab simulations to help the reader visualize concepts includes simple experiments using everyday materials that are readily available to solidify optical principles and provides worked examples throughout it contains a set of suggested experiments in each chapter designed to help the reader understand and visualize the basic principles while this book assumes that the reader has a basic background in mathematics it does not burden or overwhelm them with complex information or heavy mathematical equations in addition while it also briefly discusses advanced topics readers are directed to the appropriate texts for more detailed study comprised of 11 chapters this illuminating text describes light sources such as lasers light emitting diodes and thermal sources compares various light sources and photometric and radiometric parameters discusses light detection including various detector types such as photon detectors and thermal detectors and other topics re

Encyclopedia of Spectroscopy and Spectrometry 1953 proceedings of the nato advanced study institute erice italy may 10 20 1986

A Neutron Time-of-flight Spectrometer (thesis) 2001

In Situ High Sensitivity Brillouin Light Scattering Spectrometer for MBE-Grown Thin Films 1977

Spectrometric Techniques 2016-04-20

Tables of Wavenumbers for the Calibration of Infrared Spectrometers 2010-05-27

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Background Processes in the Electrostatic Spectrometers of the KATRIN Experiment 2014-09-15
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