

# Free epub Radiation detection and measurement knoll solutions manual file type [PDF]

Radiation Detection and Measurement Radiation Detection and Measurement Radiation Detection Measurement and Detection of Radiation Radiation Detection and Measurement Single Particle Detection And Measurement Student Solutions Manual to accompany Radiation Detection and Measurement, 4e Atomic Radiation Detection and Measurement Radiation Detection and Measurement The Detection and Measurement of Infra-red Radiation Wie Radiation Detection and Measurement Radiation Detection And Measurement: Physics and Engineering of Radiation Detection Compound Semiconductor Radiation Detectors Principles of Nuclear Radiation Detection Nuclear Radiation Detection, Measurements and Analysis The Detection and Measurement of Infra-red Radiation Environmental Pollutants Radiation on Detection and Measurement Solid-State Radiation Detectors Single Particle Detection And Measurement New Techniques for the Detection of Nuclear and Radioactive Agents Signal Processing for Radiation Detectors Handbook of Particle Detection and Imaging Nondestructive Detection and Measurement for Homeland Security Pixel Detectors The Detection and Measurement of Inflammable Gas and Vapour in the Air Handbook of Measurement in Science and Engineering, Volume 3 Active Interrogation in Nuclear Security Radiation and Detectors Nuclear Science Abstracts Ultrasonic Measurement Methods Radiation, Ionization, and Detection in Nuclear Medicine Ionizing Radiation Detectors for Medical Imaging Radiation Detection Systems Principles of Radiation Interaction in Matter and Detection Measurement, Detection, and Control of Environmental Pollutants IEEE Recommended Practice for the Detection and Measurement of Partial Discharges (corona) During Dielectric Tests Measurement, Instrumentation, and Sensors Handbook

## ***Radiation Detection and Measurement***

2010-08-16

known for its comprehensive coverage and up to date literature citations this classic text provides students and instructors with the most complete coverage available of radiation detection and measurement over the decade that has passed since the publication of the 3rd edition technical developments continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation the fourth edition of this invaluable resource incorporates the latest developments and cutting edge technologies to make this the most up to date guide to the field available covers many new materials that are emerging as scintillators that can achieve energy resolution that is better by a factor of two compared with traditional materials presents new material on roc curves micropattern gas detectors new sensors for scintillation light thick film semiconductors and digital techniques in detector pulse processing includes updated discussions on tlds neutron detectors cryogenic spectrometers radiation backgrounds and the vme instrumentation standard

## **Radiation Detection and Measurement**

2000-01-05

a classic text on radiation detection and measurement now updated and expanded building on the proven success of this widely used text the third edition will provide you with a clear understanding of the methods and instrumentation used in the detection and measurement of ionizing radiation it provides in depth coverage of the basic principles of radiation detection as well as illustrating their application in a full set of modern instruments in addition to a complete description of well established detection and spectroscopic methods many

recently developed approaches are also explored these include extensive new discussions of semiconductor detectors with unique properties recently developed scintillation materials and photomultiplier tubes and several gas filled detectors of new design many other updates and additions have been made throughout the text and two appendices have been added over 100 new figures and tables have been included key features of the third edition every chapter has been updated with extensive addition of new references to relevant articles in the scientific literature a number of new detection techniques have been added strengthening the status of the text as the most comprehensive coverage of the topic to be found in any single book the writing style has maintained the readability that has attracted favorable response from readers and reviewers of the earlier editions the author uses his extensive research experience in radiation measurements nuclear instrumentation and radiation imaging to provide you with an invaluable resource

## **Radiation Detection**

2020-08-19

radiation detection concepts methods and devices provides a modern overview of radiation detection devices and radiation measurement methods the book topics have been selected on the basis of the authors many years of experience designing radiation detectors and teaching radiation detection and measurement in a classroom environment this book is designed to give the reader more than a glimpse at radiation detection devices and a few packaged equations rather it seeks to provide an understanding that allows the reader to choose the appropriate detection technology for a particular application to design detectors and to competently perform radiation measurements the authors describe assumptions used to derive frequently encountered equations used in radiation detection and measurement thereby providing insight when and when not to apply the many approaches used in different aspects of radiation detection detailed in many of the chapters are

specific aspects of radiation detectors including comprehensive reviews of the historical development and current state of each topic such a review necessarily entails citations to many of the important discoveries providing a resource to find quickly additional and more detailed information this book generally has five main themes physics and electrostatics needed to design radiation detectors properties and design of common radiation detectors description and modeling of the different types of radiation detectors radiation measurements and subsequent analysis introductory electronics used for radiation detectors topics covered include atomic and nuclear physics radiation interactions sources of radiation and background radiation detector operation is addressed with chapters on radiation counting statistics radiation source and detector effects electrostatics for signal generation solid state and semiconductor physics background radiations and radiation counting and spectroscopy detectors for gamma rays charged particles and neutrons are detailed in chapters on gas filled scintillator semiconductor thermoluminescence and optically stimulated luminescence photographic film and a variety of other detection devices

## **Measurement and Detection of Radiation**

2015-04-24

a sound introduction to radiation detection and measurement for newcomers to nuclear science and engineering since the publication of the bestselling third edition there have been advances in the field of radiation detection most notably in practical applications incorporating these important developments measurement and detection of radiation fourth edition provides the most up to date and accessible introduction to radiation detector materials systems and applications new to the fourth edition new chapters on nuclear forensics and nuclear medicine instrumentation covering basic principles and applications as well as open ended problems that encourage more in depth research updated references and bibliographies new and expanded

problems as useful to students and nuclear professionals as its popular predecessors this fourth edition continues to carefully explain the latest radiation detector technology and measurement techniques it also discusses the correct ways to perform measurements and analyze results following current health physics procedures

## **Radiation Detection and Measurement**

2016-01-15

this text on radiation detection and measurement is a response to numerous requests expressed by students at various universities in which the most popularly used books do not provide adequate background material nor explain matters in understandable terms this work provides a modern overview of radiation detection devices and radiation measurement methods the topics selected in the book have been selected on the basis of the author s many years of experience designing radiation detectors and teaching radiation detection and measurement in a classroom environment

## **Single Particle Detection And Measurement**

2020-11-25

this book provides a summary of the state of science in teh field of single particle detection and measurement the text delineates between those low performance detectors capable of registering only a large number of particles and those complex highly designed systems capable of detecting and measuring single interactions or events the author describes the problems associated with detection measurement and subsequent

interpretation of such quantum processes he also evolves the subject from its roots in nuclear and particle physics into latter day applications such as probes for investigation of materials and objects the different nature and use of high energy particles compared with photons is highlighted

## **Student Solutions Manual to accompany Radiation Detection and Measurement, 4e**

2012-03-20

this is the resource that engineers turn to in the study of radiation detection the fourth edition takes into account the technical developments that continue to enhance the instruments and techniques available for the detection and spectroscopy of ionizing radiation new coverage is presented on roc curves micropattern gas detectors new sensors for scintillation light and the excess noise factor revised discussions are also included on tlds and cryogenic spectrometers radiation backgrounds and the vme standard engineers will gain a strong understanding of the field with this updated book

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2013-09

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# **Atomic Radiation Detection and Measurement**

1955

physics and engineering of radiation detection presents an overview of the physics of radiation detection and its applications it covers the origins and properties of different kinds of ionizing radiation their detection and measurement and the procedures used to protect people and the environment from their potentially harmful effects the second edition is fully revised and provides the latest developments in detector technology and analyses software also more material related to measurements in particle physics and a complete solutions manual have been added discusses the experimental techniques and instrumentation used in different detection systems in a very practical way without sacrificing the physics content provides useful formulae and explains methodologies to solve problems related to radiation measurements contains many worked out examples and end of chapter problems detailed discussions on different detection media such as gases liquids liquefied gases semiconductors and scintillators chapters on statistics data analysis techniques software for data analysis and data acquisition systems

# **Radiation Detection and Measurement**

1984

although elemental semiconductors such as silicon and germanium are standard for energy dispersive spectroscopy in the laboratory their use for an increasing range of applications is becoming marginalized by their physical limitations namely the need for ancillary cooling their modest stopping powers and radiation intolerance compound semiconductors on the other hand encompass such a wide range of physical and

electronic properties that they have become viable competitors in a number of applications compound semiconductor radiation detectors is a consolidated source of information on all aspects of the use of compound semiconductors for radiation detection and measurement serious competitors to germanium and silicon radiation detectors wide gap compound semiconductors offer the ability to operate in a range of hostile thermal and radiation environments while still maintaining sub keV spectral resolution at x ray wavelengths narrow gap materials offer the potential of exceeding the spectral resolution of germanium by a factor of three however while compound semiconductors are routinely used at infrared and optical wavelengths their development in other wavebands has been plagued by material and fabrication problems so far only a few have evolved sufficiently to produce commercial detection systems from crystal growth to spectroscopic performance bringing together information scattered across many disciplines this book summarizes the current status of research in compound semiconductor radiation detectors it examines the properties growth and characterization of compound semiconductors as well as the fabrication of radiation sensors with particular emphasis on the x and gamma ray regimes it explores the limitations of compound semiconductors and discusses current efforts to improve spectral performances pointing to where future discoveries may lie a timely resource for the established researcher this book serves as a comprehensive and illustrated reference on material science crystal growth metrology detector physics and spectroscopy it can also be used as a textbook for those new to the field of compound semiconductors and their application to radiation detection and measurement

## **The Detection and Measurement of Infra-red Radiation**

1968

this book is intended for senior undergraduate and beginning graduate students in physics nuclear engineering



health physics and nuclear medicine and for specialized training courses for radiation protection personnel and environmental safety engineers to keep the size of the book manageable material has been selected to stress those detectors that are in widespread use attempts have also been made to emphasize alternatives available in approaching various measurement problems and to present the criteria by which a choice among these alternatives may be made

## **Wie Radiation Detection and Measurement**

2002-08-08

nuclear radiation detection measurements and analysis covers various aspects of interactions of nuclear radiations like gamma and x rays charged particles like electrons protons alpha particles and other heavy ions and neutrons the important types of detectors for these radiations are described with reference to the principle of operation structure working key features etc different types of electronic modules which are helpful in processing and analysing the output pulses from such detectors are also described the various techniques used for acquiring experimental data using the detectors and the associated electronic modules as well as for analysing the acquired data are discussed at length some specialized detector configurations and special techniques are also elaborated simple and informative illustrations help in understanding the various concepts presented in the text

## **Radiation Detection And Measurement:**

2009-01-01

the principal emphasis of the department of radiation biology and biophysics is on biological problems techniques for measuring are considered very necessary but the development of them is usually left to someone else therefore it is a little unusual for the department to sponsor a conference which is devoted mostly to methodology environmental pollution is a very popular topic now and one notices that there are a number of scientific conferences devoted to the topic furthermore part of every conference is devoted to measurements of pollutants so the question becomes one of what should be different about our conference to start with there are two unique features here the first is the limited attendance which should provide more meaningful discussion the second is the availability to the world of all the information in book form after the conference we gave considerable thought to the contents of the conference which would take advantage of the unique features therefore we decided to look to the future and present material here that is not in routine use the search for pollutants has just begun and their presence cannot be established without some means of detection many substances are not known to be toxic because no one has studied them the necessary information can only be obtained if techniques for detection and measurement are available

## **Physics and Engineering of Radiation Detection**

2014-11-20

integrating aspects of engineering application physics and medical science solid state radiation detectors technology and applications offers a comprehensive review of new and emerging solid state materials based technologies for radiation detection each chapter is structured to address the current advantages and challenges of each material and technology presented as well as to discuss novel research and applications featuring contributions from leading experts in industry and academia this authoritative text covers modern semiconductors used for radiation monitoring examines CdZnTe and CdTe technology for imaging applications

including three dimensional capability detectors highlights interconnect technology for current pixel detectors describes hybrid pixel detectors and their characterizations tackles the integrated analog signal processing read out front ends for particle detectors considers new organic materials with direct bandgap for direct energy detection summarizes recent developments involving lanthanum halide and cerium bromide scintillators analyzes the potential of recent progress in the field of crystallography quantum dots and photonics crystals toward a new concept of x and gamma ray detectors based on metamaterials explores position sensitivity photomultipliers and silicon photomultipliers for scintillation crystals solid state radiation detectors technology and applications provides a valuable reference for engineers and scientists looking to enhance the performance of radiation detector technology for medical imaging and other applications

## ***Compound Semiconductor Radiation Detectors***

2012-04-25

this book provides a summary of the state of science in the field of single particle detection and measurement the text delineates between those low performance detectors capable of registering only a large number of particles and those complex highly designed systems capable of detecting and measuring single interactions or events the author describes the problems associated with detection measurement and subsequent interpretation of such quantum processes he also evolves the subject from its roots in nuclear and particle physics into latter day applications such as probes for investigation of materials and objects the different nature and use of high energy particles compared with photons is highlighted

# **Principles of Nuclear Radiation Detection**

2018-05-04

nuclear and radioactive agents are considerable concerns especially after the early 1990s and more attention has been focused on the radiation detection technologies this book comprises the selected presentations of nato advanced training course held 26 30 may 2008 in mugla turkey the contributions represent a wide range of documents related to control monitoring and measurement methods of nuclear radioactive isotopes and agents for both fundamental and applied works dealing with their use for different purposes this book presents environmental data from many locations of different countries and also contains the contributions in the detection monitoring programs of some authors from cis countries the basic goal of this book is to deal with recent developments and applications of environmental monitoring and measurement techniques of environmental radionuclides and nuclear agents as well as the auxiliary techniques the many recent examples contributed by authors will be useful in monitoring measurement studies of radioactive nuclear agents in the present environment and can help not only in carrying out outdoor and laboratory experiments but also in protection of possible sources of radionuclides and nuclear agents especially the contributions of experts and specialists involved in this book assured the highest level of knowledge in the field of techniques for the detection of radioactive and nuclear agents

## **Nuclear Radiation Detection, Measurements and Analysis**

2009

presents the fundamental concepts of signal processing for all application areas of ionizing radiation this book

provides a clear understanding of the principles of signal processing of radiation detectors it puts great emphasis on the characteristics of pulses from various types of detectors and offers a full overview on the basic concepts required to understand detector signal processing systems and pulse processing techniques signal processing for radiation detectors covers all of the important aspects of signal processing including energy spectroscopy timing measurements position sensing pulse shape discrimination and radiation intensity measurement the book encompasses a wide range of applications so that readers from different disciplines can benefit from all of the information in addition this resource describes both analog and digital techniques of signal processing presents a complete compilation of digital pulse processing algorithms extrapolates content from more than 700 references covering classic papers as well as those of today demonstrates concepts with more than 340 original illustrations signal processing for radiation detectors provides researchers engineers and graduate students working in disciplines such as nuclear physics and engineering environmental and biomedical engineering and medical physics and radiological science the knowledge to design their own systems optimize available systems or to set up new experiments

## ***The Detection and Measurement of Infra-red Radiation***

1957

the handbook centers on detection techniques in the field of particle physics medical imaging and related subjects it is structured into three parts the first one is dealing with basic ideas of particle detectors followed by applications of these devices in high energy physics and other fields in the last part the large field of medical imaging using similar detection techniques is described the different chapters of the book are written by world experts in their field clear instructions on the detection techniques and principles in terms of relevant operation parameters for scientists and graduate students are given detailed tables and diagrams will make this a very

useful handbook for the application of these techniques in many different fields like physics medicine biology and other areas of natural science

## **Environmental Pollutants**

2012-12-06

pixel detectors are a particularly important class of particle and radiation detection devices they have an extremely broad spectrum of applications ranging from high energy physics to the photo cameras of everyday life this book is a general purpose introduction into the fundamental principles of pixel detector technology and semiconductor based hybrid pixel devices although these devices were developed for high energy ionizing particles and radiation beyond visible light they are finding new applications in many other areas this book will therefore benefit all scientists and engineers working in any laboratory involved in developing or using particle detection

## **Radiation on Detection and Measurement**

1989-01-01

a multidisciplinary reference of engineering measurement tools techniques and applications when you can measure what you are speaking about and express it in numbers you know something about it but when you cannot measure it when you cannot express it in numbers your knowledge is of a meager and unsatisfactory kind it may be the beginning of knowledge but you have scarcely in your thoughts advanced to the stage of science lord kelvin measurement is at the heart of any engineering and scientific discipline and job function

whether engineers and scientists are attempting to state requirements quantitatively and demonstrate compliance to track progress and predict results or to analyze costs and benefits they must use the right tools and techniques to produce meaningful data the handbook of measurement in science and engineering is the most comprehensive up to date reference set on engineering and scientific measurements beyond anything on the market today encyclopedic in scope volume 3 covers measurements in physics electrical engineering and chemistry laser measurement techniques magnetic force images using capacitive coupling effect scanning tunneling microscopy measurement of light and color the detection and measurement of ionizing radiation measuring time and comparing clocks laboratory based gravity measurement cryogenic measurements temperature dependent fluorescence measurements voltage and current transducers for power systems electric power and energy measurement chemometrics for the engineering and measurement sciences liquid chromatography mass spectroscopy measurements of nitrotyrosine containing proteins fluorescence spectroscopy x ray absorption spectroscopy nuclear magnetic resonance nmr spectroscopy near infrared nir spectroscopy nanomaterials properties chemical sensing vital for engineers scientists and technical managers in industry and government handbook of measurement in science and engineering will also prove ideal for academics and researchers at universities and laboratories

## **Solid-State Radiation Detectors**

2017-12-19

this volume constitutes the state of the art in active interrogation widely recognized as indispensable methods for addressing current and future nuclear security needs written by a leading group of science and technology experts this comprehensive reference presents technologies and systems in the context of the fundamental physics challenges and practical requirements it compares the features limitations technologies and impact of

passive and active measurement techniques describes radiation sources for active interrogation including electron and ion accelerators intense lasers and radioisotope based sources and it describes radiation detectors used for active interrogation entire chapters are devoted to data acquisition and processing systems modeling and simulation data interpretation and algorithms and a survey of working active measurement systems active interrogation in nuclear security is structured to appeal to a range of audiences including graduate students active researchers in the field and policy analysts the first book devoted entirely to active interrogation presents a focused review of the relevant physics surveys available technology analyzes scientific and technology trends provides historical and policy context igor jovanovic is a professor of nuclear engineering and radiological sciences at the university of michigan and has previously also taught at penn state university and purdue university he received his ph d from university of california berkeley and worked as physicist at lawrence livermore national laboratory dr jovanovic has made numerous contributions to the science and technology of radiation detection as well as the radiation sources for use in active interrogation in nuclear security he has taught numerous undergraduate and graduate courses in areas that include radiation detection nuclear physics and nuclear security at university of michigan dr jovanovic is the director of neutron science laboratory and is also associated with the center for ultrafast optical science anna erickson is an assistant professor in the nuclear and radiological engineering program of the g w woodruff school of mechanical engineering at georgia institute of technology previously she was a postdoctoral researcher in the advanced detectors group at lawrence livermore national laboratory dr erickson received her phd from massachusetts institute of technology with a focus on radiation detection for active interrogation applications her research interests focus on nuclear non proliferation including antineutrino analysis and non traditional detector design and characterization she teaches courses in advanced experimental detection for reactor and nuclear nonproliferation applications radiation dosimetry and fast reactor analysis



# **Single Particle Detection And Measurement**

1992-09-01

ultrasonic measurement methods describes methods used in ultrasonic measurements and covers topics ranging from radiated fields of ultrasonic transducers to the measurement of ultrasonic velocity and ultrasonic attenuation along with the physical principles of measurements with electromagnetic acoustic transducers emats optical detection of ultrasound and measurement of the electrical characteristics of piezoelectric devices are also examined comprised of seven chapters this volume begins with an analysis of the radiated fields of ultrasonic transducers followed by a discussion on the measurement of ultrasonic velocity and attenuation the next chapter describes the physical principles of measurement with emats and the advantages of such devices based on their couplant free operation optical detection of ultrasound is then considered together with the problem of measuring the electrical characteristics of piezoelectric resonators and standard methods for obtaining the equivalent electrical parameter values the final chapter is devoted to ultrasonic pulse scattering in solids and highlights many fascinating examples of wave scattering some of which are accompanied by theoretical analysis this book will be of interest to physicists

# **New Techniques for the Detection of Nuclear and Radioactive Agents**

2009-02-17

this book will serve as the definitive source of detailed information on radiation ionization and detection in nuclear medicine it opens by considering fundamental aspects of nuclear radiation including dose and energy

sources and shielding subsequent chapters cover the full range of relevant topics including the detection and measurement of radiation exposure with detailed information on mathematical modelling medical imaging the different types of radiation detector and their working principles basic principles of and experimental techniques for deposition of scintillating materials device fabrication the optical and electrical behaviors of radiation detectors and the instrumentation used in nuclear medicine and its application the book will be an invaluable source of information for academia industry practitioners and researchers

## ***Signal Processing for Radiation Detectors***

2017-10-05

ionizing radiation detectors for medical imaging contains ten technical chapters half of which are devoted to radiology and the other half to nuclear medicine the last chapter describes the detectors for radiotherapy and portal imaging each chapter addresses completely a specific application the emphasis is always on detector fundamentals and detector properties where necessary software and specific applications are described in depth this book is intended for graduate and undergraduate students in physics and engineering who want to study medical imaging in addition scientists who are working in a specific sub field of medical imaging can acquire from the book an up to date description of the state of the art in related sub fields within the scope of ionizing radiation detectors other scientists as well as physicians can use the book as a reference for medical imaging

## **Handbook of Particle Detection and Imaging**

2012-01-08

the second edition of the book radiation detection systems presents variety of radiation detection systems giving readers a broad view of the state of the art in the design of detectors front end electronics and systems offering optimized choices of the detection tools for a particular application the new edition has been divided into two volumes this first volume on sensor materials systems technology and characterization measurements puts emphasis on sensor materials detector structures front electronics technology and their designs as well as system optimization for different applications also the book include characterization measurements of the developed detection systems

## **Nondestructive Detection and Measurement for Homeland Security**

2003

this book like its first edition addresses the fundamental principles of interaction between radiation and matter and the principle of particle detectors in a wide scope of fields from low to high energy including space physics and the medical environment it provides abundant information about the processes of electromagnetic and hadronic energy deposition in matter detecting systems and performance and optimization of detectors in this second edition new sections dedicated to the following topics are included space and high energy physics radiation environment non ionizing energy loss niel displacement damage in silicon devices and detectors single event effects detection of slow and fast neutrons with silicon detectors solar cells pixel detectors and additional material for dark matter detectors this book will benefit graduate students and final year undergraduates as a reference and supplement for courses in particle astroparticle and space physics and instrumentation a part of it is directed toward courses in medical physics the book can also be used by researchers in experimental particle physics at low medium and high energy who are dealing with instrumentation

## **Pixel Detectors**

2006-01-18

the second edition of the bestselling measurement instrumentation and sensors handbook brings together all aspects of the design and implementation of measurement instrumentation and sensors reflecting the current state of the art it describes the use of instruments and techniques for performing practical measurements in engineering physics chemistry and the life sciences and discusses processing systems automatic data acquisition reduction and analysis operation characteristics accuracy errors calibrations and the incorporation of standards for control purposes organized according to measurement problem the spatial mechanical thermal and radiation measurement volume of the second edition contains contributions from field experts new chapters and updates to all 96 existing chapters covers instrumentation and measurement concepts spatial and mechanical variables displacement acoustics flow and spot velocity radiation wireless sensors and instrumentation and control and human factors a concise and useful reference for engineers scientists academic faculty students designers managers and industry professionals involved in instrumentation and measurement research and development measurement instrumentation and sensors handbook second edition spatial mechanical thermal and radiation measurement provides readers with a greater understanding of advanced applications

## **The Detection and Measurement of Inflammable Gas and Vapour in the Air**

1896

# ***Handbook of Measurement in Science and Engineering, Volume 3***

2016-04-25

## ***Active Interrogation in Nuclear Security***

2018-06-07

## ***Radiation and Detectors***

2017

## **Nuclear Science Abstracts**

1973

## **Ultrasonic Measurement Methods**

2012-12-02

## ***Radiation, Ionization, and Detection in Nuclear Medicine***

2013-03-20

## **Ionizing Radiation Detectors for Medical Imaging**

2004

## **Radiation Detection Systems**

2021-11-05

## **Principles of Radiation Interaction in Matter and Detection**

2009

## **Measurement, Detection, and Control of Environmental Pollutants**

1976

# **IEEE Recommended Practice for the Detection and Measurement of Partial Discharges (corona) During Dielectric Tests**

1973

# **Measurement, Instrumentation, and Sensors Handbook**

2017-12-19

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