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exercises, and illustrations that will help you understand the laws of physics AND succeed in your course! Important Notice: Media content referenced within the product description or the product text may not be available in the ebook version.

*Making Harvard
Modern is a candid,*

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richly detailed portrait of America's most prominent university from 1933 to the present: seven decades of dramatic change. Early twentieth century Harvard was the country's oldest and richest university, but not necessarily its outstanding one. By the century's end it

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was widely regarded as the nation's, and the world's, leading institution of higher education. With verve, humor, and insight, Morton and Phyllis Keller tell the story of that rise: a tale of compelling personalities, notable achievement and no less notable academic pratfalls. Their book is

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based on rich and revealing archival materials, interviews, and personal experience. Young, humbly born James Bryant Conant succeeded Boston Brahmin A. Lawrence Lowell as Harvard's president in 1933, and set out to change a Brahmin-dominated university into a

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meritocratic one. He hoped to recruit the nation's finest scholars and an outstanding national student body. But the lack of new money during the Depression and the distractions of World War Two kept Conant, and Harvard, from achieving this goal. In the 1950s and 1960s, during the

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*presidency of
Conant's successor
Nathan Marsh Pusey,
Harvard raised the
money, recruited the
faculty, and attracted
the students that
made it a great
meritocratic institution:
America's university.
The authors provide
the fullest account yet
of this transformation,
and of the wrenching*

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campus crisis of the late 'sixties. During the last thirty years of the twentieth century, a new academic culture arose: meritocratic Harvard morphed into worldly Harvard.

During the presidencies of Derek Bok and Neil Rudenstine the university opened its doors to growing

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numbers of foreign students, women, African- and Asian-Americans, and Hispanics. Its administration, faculty, and students became more deeply engaged in social issues; its scientists and professional schools were more ready to enter into shared commercial ventures.

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But worldliness brought its own conflicts: over affirmative action and political correctness, over commercialization, over the ever higher costs of higher education. This fascinating account, the first comprehensive history of a modern American

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university, is essential
reading for anyone

*with an interest in the
present state and
future course of higher
education.*

*The full texts of Armed
Services and othr
Boards of Contract
Appeals decisions on
contracts appeals.*

*A Dictionary of
Abbreviations,
Acronyms and*

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*Symbols in Astronomy
and Related Space
Sciences*

*Machine Learning,
Dynamical Systems,
and Control*

Summer Jobs

*Physics for Scientists
and Engineers,
Volume 2*

Image and Logic

A Txtbook of
Engineering Physics

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is written with two distinct objectives: to provide a single source of information for engineering undergraduates of different specializations and provide them a solid base in physics. Successive editions of the book incorporated topics as

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required by students pursuing their studies in various universities. In this new edition the contents are fine-tuned, modernized and updated at various stages.

Engages with the impact of modern technology on experimental

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physicists. This study reveals how the increasing scale and complexity of apparatus has distanced physicists from the very science which drew them into experimenting, and has fragmented microphysics into different technical traditions.

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Also contains
brochures,
directories, manuals,
and programs from
various College of
Engineering student
organizations such as
the Society of Women
Engineers and Tau
Beta Pi.

Physics Practical for
Engineers with Viva-
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University

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fundamentals to
modern technology-a
highly applied primer

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And Gupta
for students and
engineers Reminding
us that modern
inventions-new
materials,
information
technologies,
medical
technological
breakthroughs-are
based on well-
established
fundamental
principles of physics,

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Jasprit Singh integrates important topics from quantum mechanics, statistical thermodynamics, and materials science, as well as the special theory of relativity. He then goes a step farther and applies these fundamentals to the workings of electronic devices-an essential leap for

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anyone interested in developing new technologies. From semiconductors to nuclear magnetic resonance to superconducting materials to global positioning systems, Professor Singh draws on wide-ranging applications to demonstrate each concept under

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discussion. He downplays extended mathematical derivations in favor of results and their real-world design implication, supplementing the book with nearly 100 solved examples, 120 figures, and 200 end-of-chapter problems. Modern Physics for Engineers provides

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engineering and physics students with an accessible, unified introduction to the complex world underlying today's design-oriented curriculums. It is also an extremely useful resource for engineers and applied scientists wishing to take advantage of

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research

opportunities in
diverse fields.

Singularities are
pervasive throughout
nature and this book
is one of the first to
combine all aspects
of singular optics and
to give a detailed
view of the subject.

Singularities in
Optical Physics and
Engineering give a

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thorough
introduction to
singularities and their
development and
goes on to explain in
detail important
topics such as the
types of singularities,
their properties,
detection and
application and the
emerging research
trends that are still
developing. The book

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concentrates mostly on phase singularities in a comprehensive development to allow a greater understanding of singularities throughout the chapters. It also discusses polarization singularities in its final chapter giving an in-depth description of this

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subject. With new advances being generated continuously, this book will cover a vibrant field of optics and will give an essential foundation to any students and researchers interested in singular optics. Part of IOP Series in Advances in Optics, Photonics and

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Optoelectronics

This book was originally published in Japanese in honour of Professor S. Chikazumi on the occasion of his retirement from the University of Tokyo in March 1982.

Physicists who had been supervised by him or had closely collaborated with him

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wrote articles on recent developments in magnetism and its engineering applications. In the preface of his excellent textbook *Physics of Magnetism* (Wiley, 1964), Professor Chikazumi says that recent research in magnetism deals with fundamental

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physical problems and, at the same time, with more secondary magnetic phenomena, as well as with engineering applications of magnetic materials to electromagnetic machines, permanent magnets and electronic computers, and that the purpose of his textbook is to

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give a general view of these magnetic phenomena, focusing its main interest at the center of such a broad field. Always keeping such a viewpoint in mind, Professor Chikazumi has contributed a great deal to both fundamental physics and applications of magnetism. This is

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described in Chap. 1 of this book. Many books have been published on both the physics and applications of magnetism.

However, no single book has a viewpoint covering both of them. The recent development of high technology needs such a broad

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viewpoint for
scientists and
engineers since it is a
product of both
fundamental science
and technology.

Research in
magnetism is based
on the response
which materials show
to the application of
magnetic fields.

Issues in Applied
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Guide to Writing
Empirical Papers,
Theses, and
Dissertations
Journal of the
Western Society of
Engineers
Energy Research
Abstracts
Making Harvard
Modern
*Unique in its
approach, this*

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*introduction to
the physics of
creep*

*concentrates on
the physical
principles
underlying
observed
phenomena. As
such it provides a
resource for
graduate
students in*

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*materials
science,
metallurgy,
mechanical
engineering,
physics and
chemistry as well
as researchers in
other fields.
Following a brief
mathematical
treatment, the
authors introduce*

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creep phenomena together with some empirical laws and observations. The mechanisms of creep and diffusion under varying experimental conditions are subsequently analysed and

developed. The second half of the text considers alloying in greater detail as well as exploring the structure and properties of superalloys and stress effects in these materials. The use of the wavelet

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*transform to
analyze the
behaviour of the
complex systems
from various
fields started to
be widely
recognized and
applied
successfully
during the last
few decades. In
this book some*

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*advances in
wavelet theory
and their
applications in
engineering,
physics and
technology are
presented. The
applications were
carefully selected
and grouped in
five main sections
- Signal*

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*Processing,
Electrical
Systems, Fault
Diagnosis and
Monitoring,
Image Processing
and Applications
in Engineering.
One of the key
features of this
book is that the
wavelet concepts
have been*

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described from a point of view that is familiar to researchers from various branches of science and engineering. The content of the book is accessible to a large number of readers.

*Issues in Applied
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The editors have
built Issues in
Applied Physics:
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about Applied
Physics in this
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deeper than what
you can access
anywhere else, as
well as
consistently*

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content of Issues
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world's leading
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engineers,
analysts,*

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*A Material
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Microphysics

A Textbook of

Engineering

Physics

Practical Physics

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This textbook is

a follow-up to

the volume

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**Principles of
Engineering
Physics 1 and
aims for an
introductory
course in
engineering
physics. It
provides a
balance between
theoretical
concepts and
their
applications.**

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**Fundamental
concepts of
crystal
structure
including
lattice
directions and
planes, atomic
packing factor,
diffraction by
crystal,
reciprocal
lattices and
intensity of**

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**diffracted beam
are extensively
discussed in the
book. The book
also covers
topics related
to superconducti
vity,
optoelectronic
devices,
dielectric
materials,
semiconductors,
electron theory**

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of solids and energy bands in solids. The text is written in a logical and coherent manner for easy understanding by students.

Emphasis has been given to an understanding of the basic concepts and

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their applications to a number of engineering problems. Each topic is discussed in detail both conceptually and mathematically, so that students will not face comprehension difficulties.

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**Derivations and
solved problems
are provided in
a step-by-step
approach.**

**Medical Physics
and Biomedical
Engineering
provides broad
coverage
appropriate for
senior
undergraduates
and graduates in**

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**medical physics
and biomedical
engineering.**

**Divided into two
parts, the first
part presents
the underlying
physics,
electronics,
anatomy, and
physiology and
the second part
addresses
practical**

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applications.

The structured approach means that later chapters build and broaden the material introduced in the opening chapters; for example, students can read chapters covering the

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**introductory
science of an
area and then
study the
practical
application of
the topic.**

**Coverage
includes
biomechanics;
ionizing and
nonionizing
radiation and
measurements;**

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**image formation
techniques,
processing, and
analysis; safety
issues;
biomedical
devices;
mathematical and
statistical
techniques;
physiological
signals and
responses; and
respiratory and**

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**cardiovascular
function and
measurement.
Where necessary,
the authors
provide
references to
the mathematical
background and
keep detailed
derivations to a
minimum. They
give
comprehensive**

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references to
junior
undergraduate
texts in
physics,
electronics, and
life sciences in
the
bibliographies
at the end of
each chapter.
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ics Fundamentals
& Modern Applica

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**Fundamentals &
Modern
Applications**

Covers the basic principles and theories of engineering physics and offers a balance between theoretical concepts and their applications. It is designed as a textbook for an introductory course in engineering physics. Beginning with

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a comprehensive discussion on oscillations and waves with applications in the field of mechanical and electrical engineering, it goes on to explain the basic concepts such as Huygen's principle, Fresnel's biprism, Fraunhofer diffraction and polarization. Emphasis has been given to an

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understanding of the basic concepts and their applications to a number of engineering problems. Each topic has been discussed in detail, both conceptually and mathematically. Pedagogical features including solved problems, unsolved exercised and multiple choice questions are interspersed throughout

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the book. This will help undergraduate students of engineering acquire skills for solving difficult problems in quantum mechanics, electromagnetism, nanoscience, energy systems and other engineering disciplines. This is one of enumerable self-help or how to books with an emphasis on

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Engineering Physics
Practical. The basic
premise of the book is
that there are certain
simple experiments,
involving no more than
rudimentary Physics
laws and the very basic
laws of Engineering
Physics for
undergraduate college
engineering students.
But these practical are
often not done or taken

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lightly, for several reasons. First, people don ' t realize how easy they are to do. Second, and more fundamental, they are not done because it does not occur to people to do them. Finally, and tragically, no one in their elementary, middle, or high school educational experience has stressed the

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importance of doing them, and of course neither did they teach to do them. This book is to reveal to you what the experiments are, make them readily understandable, and by means of a very easy-to-use illustrations. The main thing you should expect from this book is the theories and practical related small

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information more
precisely about
experiments. You will
get a rudimentary
understanding of the
basic concepts behind
the Engineering Physics
experiment that governs
the fundamental daily
life questions that
challenge us in life. The
book is divided into
seven major categories
and Fifteen chapters. In

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this book the students will find solutions to experimental obstacles normally faced by undergraduate college engineering students. students. In summary, you don ' t need any special background or ability to profit from this book.

Each number is the catalogue of a specific school or college of the

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University.

And Gupta
Modern Physics for
Engineers
Properties, Methods,
and Applications
Fusion Energy Update
Monthly Catalogue,
United States Public
Documents

This
text/reference
provides
students,

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practicing
engineers, and
scientists with
the fundamental
physical laws
and modern
applications
used in
industry.

Unlike many of
its
competitors,
modern physics

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theory (e.g.,
quantum
physics) and
its
applications
are discussed
in detail,
including laser
techniques and
fiber optics,
nuclear fusion,
digital
electronics,

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wave optics,
and more. An
extensive
review of
Boolean algebra
and logic gates
is also
included.
Because of its
in-text
examples with
solutions and
self-study

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exercise sets,
the book can be
used as a
refresher for
engineering
licensing exams
or as a full
year course. It
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the level of
mathematics
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master concepts

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acronyms,
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and symbols
within
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related space
sciences and
other related
fields. As
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aeronomy,
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sciences,
chemistry,
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sciences, data
processing,
education,
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engineering,
energetics,
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geodesy,
geophysics,
information
handling,
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mathematics,

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meteorology,
optics,
physics, remote
sensing, and so
on, are also
covered when
justified.

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interest have
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included where

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examples, and b
ibliographies.

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Alloys

Infantry

Data-driven
discovery is
revolutionizing
the modeling,
prediction, and
control of
complex systems.
This textbook
brings together
machine
learning,
engineering

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mathematics, and
mathematical
physics to
integrate
modeling and
control of
dynamical
systems with
modern methods
in data science.
It highlights
many of the
recent advances
in scientific

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computing that enable data-driven methods to be applied to a diverse range of complex systems, such as turbulence, the brain, climate, epidemiology, finance, robotics, and autonomy. Aimed at advanced

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undergraduate
and beginning
graduate
students in the
engineering and
physical
sciences, the
text presents a
range of topics
and methods from
introductory to
state of the
art.

Quantum

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Applied Physics
And Engineering

...

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designed to
cater to the
needs of first
year
undergraduate
engineering
students.
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lucid style,
this book
assimilates the
best practices
of conceptual
pedagogy,
dealing at
length with
various topics
such as
crystallography,
principles of
quantum
mechanics, free

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electron theory
of metals,
dielectric and
magnetic
properties,
semiconductors,
nanotechnology,
etc.

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Methods for
Physics and
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Principles of
Engineering
Physics 2
Physics and
Engineering
Applications of
Magnetism
Publisher
Description
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this highly
acclaimed
undergraduate
textbook is suitable
for teaching all the
mathematics for an
undergraduate
course in any of the
physical sciences.
As well as lucid
descriptions of all
the topics and
many worked

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examples, it contains over 800 exercises. New stand-alone chapters give a systematic account of the 'special functions' of physical science, cover an extended range of practical applications of complex variables,

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and give an introduction to quantum operators. Further tabulations, of relevance in statistics and numerical integration, have been added. In this edition, half of the exercises are provided with hints and answers and, in

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a separate manual
available to both
students and their
teachers, complete
worked solutions.

The remaining
exercises have no
hints, answers or
worked solutions
and can be used for
unaided homework;
full solutions are
available to

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instructors on a
password-protected
web site, www.cambridge.org/9780521679718.

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