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WIRED Project Spotlight: CVI Melles
GriotLaser Applications Optics

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2008 Technical Tutorial -2- Lens and focusing basics

Gaussian beam Who's Afraid of Freeform Optics? ~~Melles Griot Who We Are~~ CVI Melles Griot OPTICS LAB | HALF-WAVE PLATE VS. QUARTER-WAVE PLATE + photographer variable ND filter explained! A review of Optical Phased Array LiDAR OP-TEC

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Required Optical Density Optical
Coherence Tomography – System
and Simulation ~~Using Skew Rays to
Model Gaussian Beams Easy way to
check front/back focus on a lens What
is Fabry-Perot FP Laser Polarization of
Light: circularly polarized, linearly~~

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polarized, unpolarized light. HeCd
laser model 74 Melles Griot.mp4

Optics: Scattered light in a dielectric |
MIT Video Demonstrations in Lasers
and Optics ~~Optics: Two-beam
interference—collimated beams | MIT
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Objective Microscope (MOM)

Optics: Polarization of Light and
Polarization Manipulation; Linear
polarizer ~~Optics: Coherence length
and source spectrum | MIT Video
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Polarized Light Gaussian Beams in
Laser Cavities | Optics: Half-wave

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plate | MIT Video Demonstrations in
Lasers and Optics

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Gaussian beams introduction Optics:
Quarter-wave plate | MIT Video
Demonstrations in Lasers and Optics

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~~Lasers /u0026 Optoelectronics~~

~~Lecture 8: Gaussian Beams (Cornell
ECE4300 Fall 2016) Laser Basics~~

~~Microscope alignment for optimal
image quality: Koehler Illumination~~

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CVI Melles Griot maintains a staff of
knowledgeable, experienced

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2003 Technical applications engineers at each of our facilities worldwide. The information given in this chapter is sufficient to enable the user to select the most appropriate catalog lenses for the most commonly encountered applications. However, when additional

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Fundamental Optics - CVI Melles Griot
2009 Technical Guide ...

Historic CVI Melles Griot Technical Guide. Since the origin of this guide a few things have changed. CVI Laser Optics and Melles Griot separated into two companies both still within

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2009 Technical IDEX Corporation (their parent company.) Melles Griot, both laser and optics divisions, were then brought into the IDEX Health & Science brand. CVI Laser Optics maintained their brand name within IDEX Corporate and some parts of these guides can be found in their

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2000 Technical
updated form at cvilaseroptics.com.

Now Available to Download- CVI
Melles Griot Technical ...

At CVI Laser Optics, we were literally
born to support the industrial and
scientific laser community! It ' s even
in our name (the Roman numerals CVI

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stands for 100+5+1 or 1.06 Microns
– which is the very first type of laser
coating (Nd:YAG) that we designed
way back in 1979!

Optical Components - CVI Laser Optics

Merely said, the fundamental optics

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CVI Melles Griot - optics

Integrating innovative technology and superior manufacturing capabilities , Melles Griot supplies the elements that create light, control its efficient use, and position photonic

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2009 Technical devices for a diverse range of industries including biotechnology, semiconductor manufacturing, photonics research, and image recording. Green Optics.

Melles Griot Optic Division -
Nondestructive Testing

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2008 Technical
Optics and photonics big-hitters CVI and Melles Griot will be merging once the terms of the acquisition are signed off. optics.org speaks to CVI's CEO Stuart Schoenmann to find out more. CVI has announced plans to acquire Melles Griot for an undisclosed sum. In a move that

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2009 Technical brings together two of the biggest names in the photonics marketplace, the acquisition will more than double CVI's workforce to over 1000 once the deal closes in a few weeks time.

CVI to acquire Melles Griot - optics

Supplemental Optics Training

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2002 Technical Fundamentals from CVI Melles Griot.

Fundamental Optics (58 pages)

Gaussian Beam Optics. Lens Selection.

Optical Coatings. Fundamentals of

Positioning. Introduction to Laser

Technology. Handling Optics. Proper

handling of optical elements is very

important to avoid damage. The

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following rules follow directly from
common sense:

Optics Tutorial | Advanced Lab

CVI Melles Griot ultraviolet filters,
which are of different composition,
have very similar characteristics. The
table shows the functional

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dependence of normalized passband shape on the number of cavities used in filter construction, with FWHM arbitrary but held fixed. Because transmittance is Cross section of a typical two-cavity interference filter

Fundamental Optics Interference

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Filters - CVI Laser Optics

Melles Griot Optics Group Adds to Absolute™ Fizeau Family of Interferometer Test Optics 19 Jan 2007 Rochester, New York—The Melles Griot Optics Group today announced that they have released additional Fizeau interferometer test

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2008 Technical
optics to complement their

Absolute™ Fizeau I/40 transmission
sphere product line.

Melles Griot Optics Group Adds to
Absolute™ Fizeau Family ...

CVI Melles Griot is a leading supplier
of precision optical components and

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2000 Technical
multielement optical systems. It would not have been possible to achieve our market-leading position without an extensive knowledge of the physics of thin-film coatings and without the advanced production systems and methods required to apply such coatings in production.

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Fundamental Optics Optical Coatings

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2000 Technical appropriate catalog lenses for the most commonly encountered applications. However, when additional

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In August 2017 IDEX Health & Science

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2009 Technical
announced its plan to occupy a brand new, 100,000 square-foot leased manufacturing, research, and development facility that would bring together IDEX Health & Science 's Rochester, NY based Semrock and Melles Griot businesses that specialize in optical filters, lenses,

Access Free Fundamental Optics Cvi Melles Griot 2009 Technical shutters, and optical assemblies, as ...

IDEX Health & Science Opens New Optics Center of ...

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CVI Melles Griot, the laser and photonic component manufacturer, is

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2009 Technical
being sold by its private equity owner.. Norwest Equity Partners, which acquired what was then known as CVI Laser back in 2003, is selling the Albuquerque-headquartered company to IDEX Corporation for \$400 million in cash.. IDEX describes itself as an “ applied solutions

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company”, but perhaps more helpfully it sells ...

CVI Melles Griot sold to IDEX Corp for \$400M - optics

Melles Griot has a Longmont, Colo., plant that makes laser diodes used in medical instruments. The planned

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2008 Technical acquisition comes as CVI has seen four years of revenue growth exceeding 23 percent annually.

ABQjournal Business: Duke City
Optics Firm Cvi Laser ...

CVI Laser LLC specializes in the design and manufacture of high-

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performance assemblies and optical components. Their products support high-power applications ranging from UV to NIR wavelengths. Brands: CVI; CVI Infrared; CVI Laser Optics; Melles Griot

CVI Laser LLC | IDEX

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2009 Technical
May 12th, 2011. Lake Forest, Ill. –

IDEX Corp. has entered into a definitive agreement to acquire CVI Melles Griot (CVI) from Norwest Equity Partners, a middle market equity investment firm. CVI will operate within IDEX's Health and Science Technologies segment as a

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2009 Technical This is a key addition to the optics and photonics platform.

IDEX agrees to acquire CVI | Industrial
Laser Solutions

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2009 Technical This is likewise one of
the factors by obtaining the soft

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Presents a comprehensive
introduction to the
selection, operation, and testing of
infrared devices, including

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2000 Technical
A description of modern detector assemblies and their operation. This book discusses how to use and test infrared and visible detectors. The book provides a convenient reference for those entering the field of IR detector design, test or use, those who work in the peripheral areas, and

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2009 Technical
those who teach and train others in the field. Chapter 1 contains introductory material. Radiometry is covered in Chapter 2. The author examines Thermal detectors in Chapter 3; the “ Classical ” photon detectors – simple photoconductors and photovoltaics in Chapter 4; and

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2009 Technical
“Modern Photon Detectors” in
Chapter 5. Chapters 6 through
8 consider respectively individual
elements and small arrays of elements
the “readouts” (ROICs) used with
large imaging arrays; and Electronics
for FPA Operation and Testing. The
Test Set and The Testing Process are

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2009 Technical
analyzed in Chapters 9 and 10,
with emphasis on uncertainty and
trouble shooting. Chapters 11
through 15 discuss related skills, such
as Uncertainty, Cryogenics,
Vacuum, Optics, and the use of Fourier
Transforms in the detector
business. Some highlights of this new

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2000 Technical edition are that it Discusses radiometric nomenclature and calculations, detector mechanisms, the associated electronics, how these devices are tested, and real-life effects and problems Examines new tools in Infrared detector operations, specifically: selection and

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2008 Technical
use of ROICs, electronics for
FPA operation, operation of single
element and very small
FPAs, microbolometers, and multi-
color FPAs Contains five chapters
with frequently sought-after
information on related subjects, such
as uncertainty, optics,

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2009 Technical
cryogenics, vacuum, and the use of
Fourier mathematics for
detector analyses Fundamentals of
Infrared and Visible Detector
Operation and Testing, Second
Edition, provides the background and
vocabulary necessary to help readers
understand the selection, operation,

Access Free Fundamental Optics Cvi Melles Griot and testing of modern infrared devices.

Optical systems have a wide range of technical applications (e.g. viewing devices, lens systems) and uses in

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2008 Technical industrial manufacturing. And while the design of optical systems requires a high level of expertise, there is, to date, no resource available, which allows beginners to learn optical design. This state-of-the-art handbook, written by reputed industrial experts, provides a

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2009 Technical
comprehensive introduction to
designing optical systems, combining
for the first time theoretical aspects of
optical modeling with applications of
practical optical design. With more
than 3,000 full-colored illustrations
and images, here is an essential
reference for the optical industry as

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2009 Technical well as universities of applied sciences.

A concise, yet deep introduction to geometrical optics, developing the practical skills and research techniques routinely used in modern laboratories. Suitable for both

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2009 Technical
students and self-learners, this accessible text teaches readers how to build their own optical laboratory, and design and perform optical experiments.

From its initial publication titled Laser Beam Scanning in 1985 to Handbook

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of Optical and Laser Scanning, now in its second edition, this reference has kept professionals and students at the forefront of optical scanning technology. Carefully and meticulously updated in each iteration, the book continues to be the most comprehensive scanning

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2000 Technical resource on the market. It examines the breadth and depth of subtopics in the field from a variety of perspectives. The Second Edition covers: Technologies such as piezoelectric devices Applications of laser scanning such as Ladar (laser radar) Underwater scanning and laser

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2000 Technical
scanning in CTP. As laser costs come down, and power and availability increase, the potential applications for laser scanning continue to increase. Bringing together the knowledge and experience of 26 authors from England, Japan and the United States, the book provides an

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2000 Technical
excellent resource for understanding the principles of laser scanning. It illustrates the significance of scanning in society today and would help the user get started in developing system concepts using scanning. It can be used as an introduction to the field and as a

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reference for persons involved in any
aspect of optical and laser beam
scanning.

Proceedings of the 2012 International
Conference on Information
Technology and Software
Engineering presents selected articles

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2009 Technical
from this major event, which was held in Beijing, December 8-10, 2012. This book presents the latest research trends, methods and experimental results in the fields of information technology and software engineering, covering various state-of-the-art research theories and

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2000 Technical approaches. The subjects range from intelligent computing to information processing, software engineering, Web, unified modeling language (UML), multimedia, communication technologies, system identification, graphics and visualizing, etc. The proceedings provide a major

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interdisciplinary forum for
researchers and engineers to present
the most innovative studies and
advances, which can serve as an
excellent reference work for
researchers and graduate students
working on information technology
and software engineering. Prof. Wei

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2009 Technical
Lu, Dr. Guoqiang Cai, Prof. Weibin Liu
and Dr. Weiwei Xing all work at
Beijing Jiaotong University.

This book covers key theoretical and
practical aspects of optics, photonics
and lasers. It addresses optical
instrumentation and metrology,

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2000 Technical
photonic and optoelectronic
materials and devices,
nanophotonics, organic and bio-
photonics and high-field phenomena.
Researchers, engineers, students and
practitioners interested in any of
these fields will find a wealth of new
methods, technologies, advanced

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2009 Technical prototypes, systems, tools and techniques, as well as general surveys outlining future directions.

Ultra-short pulse laser processing of ultra-hard materials requires an accurate and agile experimental and analytical investigation to determine

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2008 Technical
an efficient choice of parameters and settings to optimize ablation.

Therefore, this work presents a quality-oriented experimental approach and an analytical approach for the modeling and validation of multi-pulse picosecond laser beam ablation on cemented tungsten

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carbide. This work starts with a review of literature and state-of-the-art theories of four relevant areas for this research: picosecond lasers, laser beam ablation process, cemented tungsten carbide (WC) and quality-oriented tools. Subsequently, a concept for an efficient material laser

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beam ablation with a picosecond laser was introduced. Furthermore, two approaches for the investigation are presented from an experimental and analytical perspective, respectively. The first approach introduced a methodology for the identification of influential

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parameters. It executes a quality-oriented methodology based on the SWOT analysis, cause-and-effect diagram and the variable search methodology. The conclusion of the methodology gave the interaction of pulse repetition rate and scanner speed in the form of pulse overlap

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and track overlap PO/TO as the most influential parameter in the maximization of the ablation rate. The second most influential factors resulted laser beam power and burst-mode. The second approach, description of the model, executes a theoretical analysis of the picosecond

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2009 Technical
laser beam ablation of cemented WC
by the application of the Beer-
Lambert law and multi-pulse ablation
modeling. The unavailable material
properties were obtained by
experimental investigations, like in
the cases of the incubation factor and
the reflectivity factor. Threshold

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fluence for cemented WC was determined by the application of the heat transfer theory and input power intensity was adapted to a Gaussian beam profile. At the end of the approach, power density visualizations of a picosecond laser pulse under the five available pulse

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2000 Technical
repetition rates were modeled and validated. The findings from the adaptation of the Beer-Lambert law acted as basis for development of the multi-pulse laser ablation model for both single-pulse mode and burst-mode, respectively. Based on the definition of the number of pulses N

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irradiating the same area, the corresponding threshold fluence for N , the input fluence and incubation factor, ablation depth was modeled and experimentally validated. Finally, results and conclusions of both approaches were discussed and a framework for an efficient laser beam

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2008 Technical
ablation was presented.

Recommendations for further actions on research and industry were introduced at the end of the work.

Many optical design technical books are available for many years which mainly deal with image optics design

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2000 Technical based on geometric optics and using sequential raytracing technique.

Some books slightly touched laser beam manipulation optics design. On the other hand many books on laser diodes have been published that extensively deal with laser diode physics with little touching on laser

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2008 Technical
diode beam manipulations and characterizations. There are some internet resources dealing with laser diode beams. However, these internet resources have not covered enough materials with enough details on laser diode beam manipulations and characterizations. A technical book

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2008 Technical concentrated on laser diode beam manipulations and characterizations can fit in to the open and provide useful information to laser diode users. Laser Diode Beam Basics, Manipulations and Characterizations is concentrated on the very practical side of the subject, it only discusses

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the basic physics and mathematics that are necessary for the readers in order to understand the subject. This book is intended to provide a practical guidance and reference to those scientists and engineers who are still new to laser diode applications, and to those

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2009 Technical Undergraduate and graduate students who are studying lasers and optics. Readers are expected to be able to fast and easily find the most practical and useful information about laser diodes in this book without the need of searching through a sea of information.

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Laser spectroscopy is a valuable tool for sensing and chemical analysis. Developments in lasers, detectors and mathematical analytical tools have led to improvements in the sensitivity and selectivity of spectroscopic techniques and

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2000 Technical extended their fields of application. Laser Spectroscopy for Sensing examines these advances and how laser spectroscopy can be used in a diverse range of industrial, medical, and environmental applications. Part one reviews basic concepts of atomic and molecular processes and presents

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2000 Technical
the fundamentals of laser technology for controlling the spectral and temporal aspects of laser excitation. In addition, it explains the selectivity, sensitivity, and stability of the measurements, the construction of databases, and the automation of data analysis by machine learning.

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2009 Technical Part two explores laser spectroscopy techniques, including cavity-based absorption spectroscopy and the use of photo-acoustic spectroscopy to acquire absorption spectra of gases and condensed media. These chapters discuss imaging methods using laser-induced fluorescence and

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2000 Technical
phosphorescence spectroscopies
before focusing on light detection
and ranging, photothermal
spectroscopy and terahertz
spectroscopy. Part three covers a
variety of applications of these
techniques, particularly the detection
of chemical, biological, and explosive

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2000 Technical threats, as well as their use in medicine and forensic science. Finally, the book examines spectroscopic analysis of industrial materials and their applications in nuclear research and industry. The text provides readers with a broad overview of the techniques and applications of laser

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2000 Technical spectroscopy for sensing. It is of great interest to laser scientists and engineers, as well as professionals using lasers for medical applications, environmental applications, military applications, and material processing. Presents the fundamentals of laser technology for controlling the

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2000 Technical
spectral and temporal aspects of laser
excitation Explores laser spectroscopy
techniques, including cavity-based
absorption spectroscopy and the use
of photo-acoustic spectroscopy to
acquire absorption spectra of gases
and condensed media Considers
spectroscopic analysis of industrial

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materials and their applications in
nuclear research and industry

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