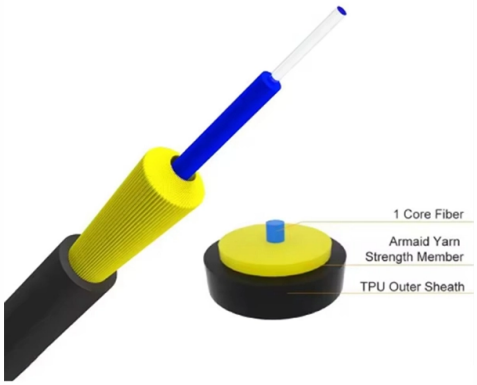
Ireland as the origin of blue laser diodes



Overview

Nakamura graduated from the in 1977 with a in Electronic Engineering, and obtained an in the same subject in 1979, after which he joined the, also based in. It was while working for Nichia that Nakamura invented the method for producing the first commercial high brightness (GaN) LED whose brilliant light, when partially converted to yellow by a phosphor coating, is the key to white LED lighting, which went into productio.

Article Overview

Blue laser diodes were developed primarily in Japan by Shuji Nakamura and his colleagues, not in Ireland.

Article Content

The Blue Laser and Its Applications in Industry and

Blue Laser, its advantages and applications. State-of-the-art blue semiconductor laser modules make a

(PDF) High-Powered Diode Lasers—New, Bright and Blue

The paper discusses the evolution and impact of high-powered diode lasers, particularly in industrial manufacturing processes and

2000: Prototype blue laser disc stores HD video

Improvements in semiconductor laser diodes drove the next two leaps in optical disc storage capacity. Early CD drive lasers emitted

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A New Blue Laser

Two groups have just announced a new kind of solid-state laser that emits bright blue-violet light, raising hopes of

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In spite of many factors against progress, this second edition of The Blue Laser Diode testifies to the success of this

Shuji Nakamura

Nakamura graduated from the University of Tokushima in 1977 with a B.Eng. in Electronic Engineering, and obtained an M.Eng. in the same subject in 1979, after which he joined the Nichia Corporation, also based in Tokushima. It was while working for Nichia that Nakamura invented the method for producing the first commercial high brightness gallium nitride (GaN) LED whose brilliant blue light, when partially converted to yellow by a phosphor coating, is the key to white LED lighting, which went into productio

S. Nakamura et al., The Blue Laser Diode

stems from a huge market already in place - reading data on c mpact disks (CD''s). CD players now use 780 nm (near-infrared) lasers

S. Nakamura et al., The Blue Laser Diode

Researchers have been pursuing short wavelength laser diodes for years. Part of the excitement about these new devices stems

Violet and Blue Laser Diodes Make Strides

Short-wavelength lasers in the violet and blue spectral range are playing an important role in optical data storage and are receiving

Blue High-Power Laser Diodes -

High-power diode lasers are possibly the most efficient way of making electrical energy usable for material processing,

Background story of the invention of efficient blue InGaN light ...

Having excelled at achieving high efficiency blue LEDs, the next step for me was to demonstrate the first InGaN-based

History of the LED

The history of the light-emitting diode begins with the 1906 discovery of electroluminescence from a solid state diode by Henry

Blue laser

The violet 405 nm laser (whether constructed directly from GaN or frequency-doubled GaAs laser diodes) is not in fact blue, but

Invention, development, and status of the blue light-emitting diode ...

Here we discuss the initial invention of blue LEDs, historical developments that led to their current state-of-the-art

The Blue Laser Diode: The Complete Story | Springer Nature Link

For the first time it is possible to produce lasers with various wavelengths, ranging from red through yellow and green to blue, in one

Development of High-Brightness and High-Power Blue Direct Diode Laser ...

In recent years, blue direct diode lasers (BDDL) have been attracting attention as a light source for metal processing applications.

Short history of laser development

Optical Engineering is an SPIE journal that publishes peer-reviewed articles reporting on research, development, and applications of

The Blue Laser Diode. The Complete Story

The Blue Laser Diode. The Complete Story Shuji Nakamura, Stephen Pearton and Gerhard Fasol Published under licence by IOP

Blue Laser Diodes

Mobile laser scanning projection applica-tions have specific requirements to the blue laser diodes. Although the requirements like

The Elusive Blue LED: How Did Researchers Finally Triumph?

The road to creating a blue LED was long and rough, but in 1993, it burst onto the scene. Learn about the struggles

Impossible inventions: The blue laser

Semiconductor lasers (and light-emitting diodes) emit light when an electron carrying current through the crystal

Blue Lasers Move Deeper Into Applications

Blue Lasers Move Deeper Into Applications Higher power and brightness enable new capabilities Jean-Michel Pelaprat, Matthew

How Shuji Nakamura''s Invention Lights Up the World

The National Inventors Hall of Fame® honors Inductee Shuji Nakamura, who discovered

A modern perspective on the history of semiconductor nitride blue light ...

In this paper we shall discuss the development of blue light-emitting (LED) and laser diodes (LD), starting early in the

75 Years of Innovation: LED, first blue-light emitting diode

This is the tale of the elusive violet-blue light-emitting diode. From Red and Green to Blue LED: How Gallium Nitride

Blue Lasers – violet, cyan, upconversion, laser diodes, frequency

Blue lasers are lasers emitting blue light. There are many different kinds of blue lasers, including laser diodes and frequency-doubled

The Blue Laser Diode. The Complete Story

In spite of many factors against progress, this second edition of The Blue Laser Diode testifies to the success of this gamble. The

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