

Estonia as the origin of red laser diodes

Through most of the 20th century, the first laser beams that were most likely to be seen were red. Engineers and physicists added a handful of new visible laser colors from gases throughout this first ...

But LEDs all trace their genealogies back to the first visible laser diode--and it was red. The father of that primordial visible diode is Nick Holonyak Jr., the winner of this year's IEEE Medal ...

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1 Introduction on their use in optical microsystems. Before beginning the technical discussion, it may be of edifying value to consider the laser diode in its historical and applications context. We thus begin ...

The laser is unique in that its entire structure is manufactured a layer of atoms at a time by the crystal growth technique called molecular-beam epitaxy.

The light that emerges from a simple semiconductor diode of shelf-bought lasers tends to be in the wavelength range of 700-800 nanometers, thereby ranging from orange to red in color.

There has been ongoing debate as to whether IBM or GE invented the first laser diode which was largely based on theoretical work by William P. Dumke at IBM's Kitchawan Lab (currently known as...

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He is noted particularly for his 1962 invention and first demonstration of a semiconductor laser diode that emitted visible light. This device was the forerunner of the first generation of commercial light ...

Where is Estonia? Estonia is a Northern European nation and the northernmost of the three Baltic republics. It

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is geographically positioned both in the Northern and Eastern hemispheres ...

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Red laser diodes, based on, e.g., GaInP or AlGaInP quantum wells, are available with different output power levels, ranging from a few milliwatts (single emitters, VCSELs) to the order of 100 W from ...

Estonia is a developed country with a high-income, advanced economy, and Eurozone membership. It is a democratic unitary parliamentary republic, with a single-tier local government system consisting of ...

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