Origin of German Blue Laser Diodes

Today, magnesium-doping of gallium nitride remains the basis for all commercial blue LEDs and laser diodes. In the early 1970s, these devices were too dim for practical use, and research into gallium ...

The Blue Laser Diode The Complete Story Second Updated and Extended Edition With 256 Figures and 61 Tables

In this book the scientific basis of GaN light emitting devices and the physical concept and basic manufacturing technology of these new blue light emitting diodes and laser diodes are ...

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As a result, Shuji Nakamura and myself worked many night-sessions over Christmas and New Year 1996/1997, and the first edition of the Blue GaN Laser book was published in January ...

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The first red LED was created in the 1950s and by the 1960s the pursuit of shorter emission wavelengths had already yielded green LEDs -- but blue devices were lacking.

This document is a book about the development of the blue laser diode. It discusses key players like Shuji Nakamura who were instrumental in developing blue LEDs using InGaN/AlGaN materials.

In the 1980s, all known material systems possessing the necessary properties for blue-light emission had shortcomings, thus negating their utilization in efficient LEDs. Gallium nitride (GaN) ...

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