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Explore the fascinating realm of Quantum Wells and Heterostructures in Physics. This resource delves into the principles governing these structures, their unique properties, and their applications in various fields, including optoelectronics and advanced material design. Learn how confining electrons within these well-defined potential landscapes leads to quantized energy levels and novel physical phenomena. Ideal for students, researchers, and professionals interested in solid-state physics and nanotechnology.

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controlled by taking advantage of the quantum size effects in quantum well heterostructures. Furthermore, heterostructures can be used as waveguides to the... 19 KB (2,746 words) - 01:50, 1 September 2023

(2014). "Chlorine Doped Graphene Quantum Dots: Preparation, Properties, and Photovoltaic Detectors". *Applied Physics Letters*. 105 (11): 111116. Bibcode:2014ApPhL... 246 KB (26,739 words) - 14:08, 1 March 2024

In quantum computing, a qubit (/ˈkjuːbɪt/) or quantum bit is a basic unit of quantum information—the quantum version of the classic binary bit physically... 35 KB (4,247 words) - 00:12, 7 March 2024

and growing the I doped active layer, followed by the P doped cladding, and a contact layer. The active layer most often consists of quantum wells, which... 51 KB (6,384 words) - 17:31, 25 February 2024
800 and 1100 °C. Introduction of trimethylaluminium and/or trimethylindium is necessary for growing quantum wells and other kinds of heterostructures. Commercially... 37 KB (3,688 words) - 13:54, 28 February 2024

creation of modern heterostructure physics and electronics. He is an inventor of the heterotransistor and co-winner (with Herbert Kroemer and Jack Kilby) of... 229 KB (28,274 words) - 01:16, 14 January 2024

semiconductor diode that has effectively "negative resistance" due to the quantum mechanical effect called tunneling. It was invented in August 1957 by Leo... 14 KB (1,472 words) - 06:15, 17 December 2023

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antimonide can act as a quantum well. In such a heterostructure InSb/AlInSb has recently been shown to exhibit a robust quantum Hall effect. This approach... 12 KB (993 words) - 09:30, 26 December 2023

quantum efficiency, 99.7 % internally and 72 % externally, from AlGaAs/GaAs/AlGaAs double heterostructures". *Applied Physics Letters*. 62 (2): 131. Bibcode:1993ApPhL... 45 KB (5,147 words) - 14:23, 5 March 2024

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Physics for discovering and explaining the fractional quantum Hall effect. 2009: Willard S. Boyle, George E. Smith shared the Nobel Prize in Physics with... 151 KB (12,849 words) - 20:52, 14 March 2024

motors, especially medium-powered brushless DC motors. The HIGFET (heterostructure insulated-gate field-effect transistor) is now used mainly in research... 49 KB (5,954 words) - 05:42, 3 February 2024

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Hwang, Bing-Joe; Dai, Hongjie (2014). "Nanoscale nickel oxide/Nickel heterostructures for active hydrogen evolution electrocatalysis". Nature Communications... 121 KB (12,370 words) - 20:53, 15 March 2024

Alferov* – Soviet and Russian physicist and academic who contributed significantly to the creation of modern heterostructure physics and electronics; inventor... 182 KB (21,931 words) - 19:59, 3 March 2024

70 gigawatts In quantum physics and quantum mechanics, the MOSFET is the basis for two-dimensional electron gas (2DEG) and the quantum Hall effect. The... 174 KB (14,390 words) - 08:38, 27 December 2023

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in semiconductors or semiconductor heterostructures (such as quantum wells), atomic vapors and gases, plasmas and even liquids, it was possible to generate... 66 KB (7,958 words) - 11:32, 13 March 2024