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~~(3 Hours)~~ Why Elon Musk Created
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discusses topics such as the history of the ion implantation; the different types and purposes of ion implanters; the penetration of energetic ions into solids; damage annealing in silicon; and ion implantation metallurgy.

Ion Implantation Science and

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Ion implantation is increasingly employed to tailor materials to various optical, magnetic and electrical properties, focused ion beams can be used to machine away or deposit material on a scale of nanometres, and the scattering of energetic ions is a unique and

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quantitative tool for process development in high speed electronics and 3-D nanostructures with extreme aspect ratios for tissue engineering and nano-fluidics lab-on-a-chip may be machined using proton beams.

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This book is a tutorial presentation of
the science, techniques, and machines

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of ion implantation. The first section of this book concerns the science of ion implantation. It covers the historical development of the field, and the basic theory of energetic ion penetration of solids. The major concentration of this section is to explain the nature of the creation of

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damage in crystalline silicon during ion implantation, and the methods which can be used to recover the original crystallinity.

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Ion implantation is a low-temperature process by which ions of one element are accelerated into a solid target, thereby changing the physical, chemical, or electrical properties of

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the target. Ion implantation is used in semiconductor device fabrication and in metal finishing, as well as in materials science research. The ions can alter the elemental composition of the target (if the ions differ in composition from the target) if they stop and remain in the target.

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Ion implantation - Wikipedia

Ion beam technology including ion implantation and ion irradiation is an efficient tool to realize material modification. Ion implantation technology can achieve the precise doping of almost all elements

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Compulsorily, while ion irradiation can manage defect engineering, morphology control, and so on with people's intentions.

Application of ion beam technology in
(photo ...

The effect of ion implantation on the

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Technology and mechanical properties of the hard alloy plates based on tungsten carbide and a cobalt binder is described. A study of the effects of ion implantation on the phase composition and the structure of materials is presented; the development of displacement

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cascades during ion implantation and their influence on the formation of the structure of the processed materials are shown.

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The temperature of ion implanted

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silicon wafers has been measured as a function of time using an infrared pyrometer. Ion beam power density was varied from 0.10 to 200 W cm⁻², and the target temperature was measured in the range from 100 °C to the silicon melting point.

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