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INVESTIGATION OF THE OPTICAL PROPERTIES OF A BROKEN SURFACE LAYER OF PZT PIEZOCERAMICS MODIFIED BY HYDROGEN ATOMS

The optical properties of a broken surface layer of PZT piezoceramics modified by hydrogen atoms have been investigated. The phenomenon of an interference of light scattered on particles of the broken surface layer of PZT piezoceramics has been observed. Modification of the broken surface layer of PZT piezoceramics by hydrogen atoms leads to a partial spraying of the particles and an increase in their absorption coefficient, as a result, the intensity and thickness of the interference maxima decrease. Change of optical properties of a broken surface layer is a result of the ceramic reduction process with hydrogen atoms.

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