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Short fibers range from asbestos fibers, which were described as early as 300 BC to carbon

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The cellulose builds up the backbone of the fiber, while the inorganic component is responsible for the functionalization of the fiber. The inorganic component embedded into the cellulosic fiber is the carrier of the function.

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Fiber shrinkage also observed during LSI process that caused from reaction in fiber and between fiber and matrix. These were confirmed with changes of process temperature by SEM, XRD and TEM analysis.

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Although potassium titanate fibers have needle crystals, it can have different crystal structures depending on the process of manufacture. The physical and chemical properties differ depending on the structure. When the fiber diameter is at submicron level, the strength of fiber is expected to increase significantly.

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This article covers synthetic inorganic fibers comprising aluminum oxide (alumina,  $\text{Al}_2\text{O}_3$ ) with only a small ( $< 1\%$ ) fraction of silicon dioxide (silica,  $\text{SiO}_2$ ), or with a significant fraction of silica and having either a glassy or polycrystalline structure. The world manufacture of such fibers exceeds 20 kt per year.

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## **Structure Applications Materials Technology**

Inorganic and Composite Fibers: Production, Properties, and Applications provides a comprehensive review on the development, production and application of modern inorganic and composite fibers. Particular emphasis is placed on current production processes, parameters and finishing and functionalization methods for improving their properties and the problems associated with the testing of fibers.

## **Inorganic and Composite Fibers - 1st Edition**

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This book summarizes the historical viewpoint of polymer-derived ceramic fibers, basic information (production process, fine structures, physical properties, and so forth) about them, and their applications. It also presents prospects of future inorganic fibers. Key Features:

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