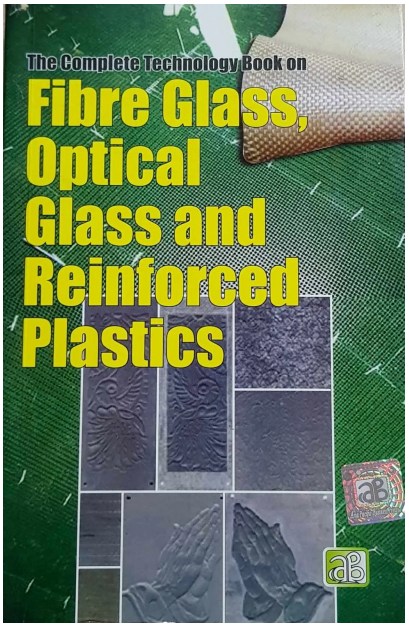
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The Complete Technology Book on Fibre Glass, Optical Glass and Reinforced Plastics

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Description

Although many natural materials were used in the past by man, answering his instinctive urges to prevent heat loss from or entry into his dwellings, no material in modern technology has satisfied the all around requirements as has fiber Glass. Fiber glass, optical glass and reinforced plastics have important applications and uses in the making of various products. Fiberglass is a lightweight, extremely strong, and robust material. Although strength properties are somewhat lower than carbon fiber and it is less stiff, the material is typically far less brittle, and the raw materials are much less expensive. Its bulk strength and weight properties are also very favorable when compared to metals, and it can be easily formed using molding processes. Fibre glass behaves as a thermal insulation because of its entrapment of small cells of air, and prevention of movement of the air in those cells. In acoustical applications, fibre glass presents to advancing sound waves a myriad of small anechoic chambers which reflect the sound inward from many diverse surfaces until it becomes blotted out. Optical glass is a high glass material that has been seen specifically formulated to posses certain desirable characteristics that effect the propagation of light. The two primary parameters that define the basic types of optical glass are its refractive index and its dispersion. Transportation on wheel is of special significance to the reinforced plastics industry on a number of counts. Suppliers of reinforced plastics parts are often called upon to furnish prototypes of products being considered for auto, truck and bus applications. Performance and quality demands on materials used in aerospace vehicles have given rise to many plastics developments and have kept profits in the plastics industry at a higher level than those in other major markets.
Some of the fundamentals of the book are fibres based on natural polymers: fibres based on synthetic polymers, fibre glass blown wool or insulation products and their applications, fibre glass in wall construction for reduced sound transmission, ceramic fibre papers, ceramic fibre textiles, commercial polymerization processes, continuous filament fibre forming methods, marine applications, reinforced plastics for transportation on wheels, plastics in aircraft and aerospace, structural laminate bag molding process, reinforced molding compounds, filament winding, etc.

The present book contains processes and other valuable information for fiber glass, optical glass and reinforced plastics. This is very resourceful book for entrepreneurs, technocrats, institutions, researches etc.

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About Niir

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