

Fibre Sintetice ; Chimie si Technologie. LUPU ALEXANDRU and SORIN BOSICA. Bucuresti, 1966

The book presents first a brief historical introduction and then, in part I, a rather detailed account of the principles of fiber formation, fiber structure, and fiber properties.

The text ranges from fundamental factors such as orientation and crystallization of macromolecules to technological details, such as the size and shapes of spinneret holes and from the basic laws of rheology to the actual design of spinning machines. The scientific background is presented in short but clear forms and the reader is referred to the very complete bibliography (containing 749 entries) for further information; the technology encompasses most of the actually used processes and describes them in adequate detail with the aid of flow sheets, photographs, tables, and curves. The second part describes in considerable detail the manufacturing of synthetic fibers with special emphasis on polyester and polyacrylics; lesser space is devoted to fibers made of polyolefins, poly(vinyl alcohol) and various vinyl chlorides; not included in the book are cellulose and polyamides. As in part I, the presentation includes the enumeration and evaluation of the most important fundamental factors and, at the same time, the description of the most effective and successful production designs. This book contains in a remarkably short space (about 500 pages) a surprising amount of basic knowledge and practical know-how and can be recommended to everybody who wants to be introduced in the modern science and technology of man-made fibers.

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