

## CONTENTS

### Part I : The structure and properties of fibres

I. Fundamental conceptions	3
II. The structure of fibres	17
III. The synthesis of fibres	42
IV. Orientation and crystallinity	49
V. The influence of orientation on fibre properties	76
VI. Chemical constitution and fibre properties	86

### Part II. Fibres made from natural polymers

VII. The first rayons : chardonnet silk	113
VIII. Viscose acetate	118
IX. Cuprammonium rayon	176
X. Cellulose acetate	184
XI. Cellulose triacetate : Courpleta , trichel , arnel	202
XII. High – tenacity cellulosic fibres : Tenasco, Cordura, durafil fortisan	212
XIII. Fiber E	225
XIV. Chemically modified cellulosic fibres	231
XV. Alginate fibres	241

### Part III. Regenerated protein fibres

XVI. Casein fibres : lanital aralac fibrolane merinova	255
XVII. Ardil	266
XVIII. Soybean fibres	272
XIX. Vicara	275

### Part IV : Synthetic fibres

XX. Nylon	291
XXI. Perlon	324
XXII. Terylene and dacron	340
XXIII. Vinyon and vinyon HH	366
XXIV. Dynel and vinyon N	373
XXV. Saran : velon, permalontygan	381
XXVI. Polyvinyl chloride : Pe Ce PCU rhovyl	387
XXVII. Vinyon and kuralon	395
XXVIII. Verel	401
XXIX. Orlon pan dralon	404
XXX. Acrilan and courtelle	428
XXXI. Creslan	440
XXXII. Darlan	443

XXXIII. Zefran	450
XXXIV. Polyethylene : courlene , marlex	451
XXXV. Teflon	455
XXXVI. Glass	462
XXXVII. Metallic yarns	471
<b>Part V : Processing</b>	
XXXVIII. The control of static	479
XXXIX. Textured yarns	483
XL. Staple fibre	498
XLI. Non – woven fabrics ,felts and papers	534
XLII. Dyeing and finishing	548
XLIII. Identification and estimation of man – made fibres	597
XLIV. Economic and social aspects of man – made febres	614
List of commercial man – made fibres	635
Bibliography	647
Index	649