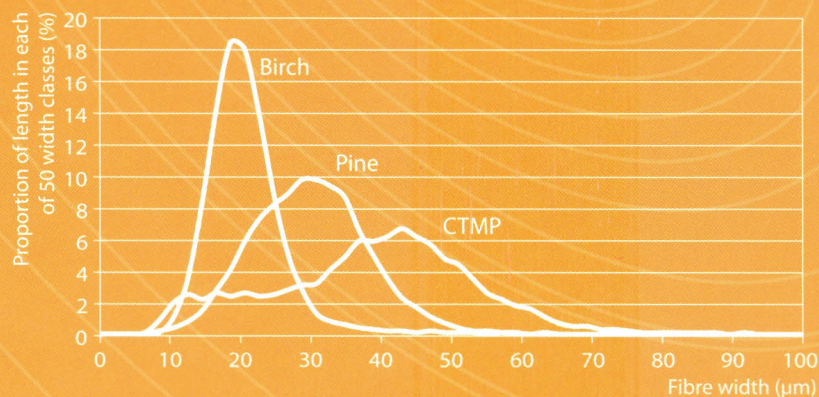
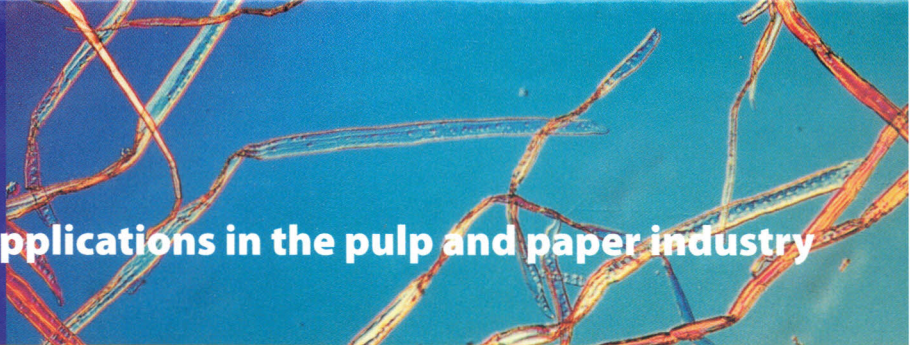


# Fibre Guide

Fibre analysis and process applications in the pulp and paper industry

A handbook by Håkan Karlsson





# Contents

1 Introduction . . . . .	7
2 Wood parts . . . . .	9
3 Fibre species . . . . .	15
4 Fibre structure . . . . .	21
5 Manufacturing processes – an overview . . . . .	23
6 Fibre/Process . . . . .	33
7 Traditional testing of pulp . . . . .	41
8 New technologies . . . . .	51
9 Measurements of fibre properties . . . . .	55
10 Statistics and reports . . . . .	69
11 Sampling . . . . .	77
12 Impact of fibres on products . . . . .	81
13 Models . . . . .	91
14 Applications of on-line fibre analysis . . . . .	99
15 Cost of raw material and return on investment . . . . .	107
16 Reference testing . . . . .	113
17 Bibliography . . . . .	115
18 Index . . . . .	117
19 Abbreviations . . . . .	119