

## CONTENTS

1-1 Epoxidized polyamide wet strength resin	1
1-2 Glyoxalated polyacrylamide wet strength resin	19
1-3 Wet end starches – the practical chemical aspects	21
2-1 Fundamentals of rosin sizing	29
2-2 Sizing with ASA : its properties and application	45
2-3 Problem areas in sizing and new advances / panel discussion	53
2-3A Mill experience with liquid cold water soluble size	55
2-3B Troubleshooting problems in the rosin sizing of paper and board	57
2-3C Rosin size in unfamiliar surroundings	59
3-1 The relative effects of different calcium carbonate filler pigments on paper properties	63
3-2 Fundamental online measurement requirements for control of retention and drainage on a modern paper machine	93
4-1 Behavior of anionic direct dyes under alkaline sizing conditions	111
4-2 Corrosion control in papermachine wet end environments	117
4-3 Role of alum in alkaline papermaking	129
4-4 Absorption of wet end additives onto the surface of pulps and fillers	135
Conversion factors for SI units	136