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7.7 Dispersion Agents7.8 Collecting Chemicals; 7.9 Frothing Agent; 7.10 Defoamer; 7.11 Emulsions; 7.12 Modified Inorganic Particle; 7.13 Calcium Salts; References; 8 Deinking with Enzymes; 8.1 Introduction; 8.2 Enzymes Used in Deinking and Their Mechanism; 8.3 Developments in Enzymatic Deinking; 8.4 Effects of Enzymes on Fibre, Paper Quality and Pulp Yield; 8.5 Effects of Enzymes on Effluent Characteristics; 8.6 Benefits and Limitations; 8.7 Future Prospects; References; 9 Bleaching of Secondary Fibres; 9.1 Introduction; 9.2 Chlorine Bleaching; 9.2.1 Bleaching with Hypochlorite
9.3 Chlorine-Free Bleaching9.3.1 Bleaching with Hydrogen Peroxide; 9.3.2 Bleaching with Dithionite; 9.3.3 Bleaching with FAS; 9.3.4 Bleaching with Oxygen; 9.3.5 Bleaching with Ozone; 9.3.6 Bleaching with Peroxyacids; 9.3.7 Direct Borohydride Injection Bleaching; References; 10 Refining of Recycled Fibres; 10.1 Introduction; 10.2 Refining Effects; 10.3 Use of Enzymes in Upgrading Secondary Fibre; References; 11 Improving Drainability of Recycled Fibres; 11.1 Introduction; 11.2 Effect of Enzymes and Chemical Additives on Drainage; References; 12 Effects of Recycled Fibre on Paper Machines
12.1 Introduction

Sommario/riassunto

Paper recycling in an increasingly environmentally conscious world is gaining importance. Increased recycling activities are being driven by robust overseas markets as well as domestic demand. Recycled fibers play a very important role today in the global paper industry as a substitute for virgin pulps. Paper recovery rates continue to increase year after year. Recycling technologies have been improved in recent years by advances in pulping, flotation deinking and cleaning/screening, resulting in the quality of paper made from secondary fibres approaching that of virgin paper. The pro
