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9.3 Chlorine-Free Bleaching 9.3.1 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
