1. Record Nr. UNINA9910790849603321 Autore Bajpai P (Pratima) Titolo Recycling and deinking of recovered paper / / Pratima Bajpai Pubbl/distr/stampa Waltham, MA:,: Elsevier,, 2014 **ISBN** 0-12-417169-9 Edizione [First edition.] 1 online resource (vii, 304 pages): illustrations (some color) Descrizione fisica Collana Elsevier insights Gale eBooks Disciplina 363.72 363.7288 Waste paper - Recycling Soggetti Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Note generali Description based upon print version of record. Nota di bibliografia Includes bibliographical references. Nota di contenuto Front Cover; Recycling and Deinking of Recovered Paper; Copyright Page: Contents: Preface: 1 Introduction: 1.1 The Paper and Paperboard Industry in the Global Market; 1.2 General Aspects of Paper Recycling; 1.3 Benefits of Recycling; 1.4 Statistics; 1.5 Challenges for Paper Recyclers: 1.5.1 Deinking: 1.5.2 Adhesives: 1.5.3 Limited Life Cycle: References; 2 Legislation for Use of Recycled Paper; 2.1 Introduction; 2.2 Legislation in the European Union; 2.3 Legislation in Japan; 2.4 Legislation in the USA; References; 3 Collection Systems and Sorting of Recovered Paper; 3.1 Collection 3.2 Sorting, Handling and Storage of Recovered PaperReferences; 4 Process Steps in Recycled Fibre Processing: 4.1 Introduction: 4.2 Process Steps and Equipment; 4.2.1 Pulping; 4.2.2 Deflaking; 4.2.3 Refuse Removal; 4.2.4 High-Density Cleaning; 4.2.4.1 Coarse and Fine Screening; 4.2.5 Flotation; 4.2.6 Washing; 4.2.7 Thickening; 4.2.8 Kneading and Dispersion; 4.2.9 Fine Cleaning; 4.2.10 Deinking Processes; References; 5 System and Process Design for Different Paper and Board Grades; 5.1 Introduction; 5.2 RCF Stock Preparation for Newsprint and Improved Paper Grades 5.3 RCF Stock Preparation for Market Pulp Systems5.4 RCF Stock Preparation for Fine Paper System; 5.5 RCF Stock Preparation for Tissue: 5.6 RCF Stock Preparation for Test Liner: References: 6 Effects of Recycling on Pulp Quality; 6.1 Introduction; 6.2 General Effects of

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## 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