

1. Record Nr.	UNINA9910973916503321
Titolo	Pulp and paper chemistry and technology . Volume 2 Pulping chemistry and technology // edited by Monica Ek, Goran Gellerstedt, Gunnar Henriksson
Pubbl/distr/stampa	Berlin, : De Gruyter, c2009
ISBN	9786612456923 9781523116522 1523116528 9781282456921 128245692X 9783110213423 3110213427
Edizione	[1st ed.]
Descrizione fisica	1 online resource (484 p.)
Collana	Pulp and Paper Chemistry and Technology ; ; Volume 2
Classificazione	VN 5500
Altri autori (Persone)	EkMonica GellerstedtGoran HenrikssonGunnar
Disciplina	676
Soggetti	Pulping - Chemistry Wood-pulp Papermaking - Chemistry
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 and index.
Nota di contenuto	Frontmatter -- Contents -- 1. Overview of Pulp and Paper Processes -- 2. Wood Handling -- 3. Mechanical Pulping Chemistry -- 4. Mechanical Pulping -- 5. Chemistry of Chemical Pulping -- 6. Pulping Technology -- 7. Kinetics of Chemical Pulping and Adaptation to Modified Processes -- 8. Pulp Washing -- 9. Chemistry of Bleaching of Chemical Pulp -- 10. Bleaching of Pulp -- 11. Production of Bleaching Chemicals at the Mill -- 12. Recovery of Cooking Chemicals: the Treatment and Burning of Black Liquor -- 13. The Recovery of Cooking Chemicals: the White Liquor Preparation Plant -- 14. Towards Increased Closure and Energy Efficiency -- 15. Paper Recycling -- 16. Pulp Characterisation -- Backmatter

Sommario/riassunto

This four volume set covers the entire spectrum of pulp and paper chemistry and technology from starting material to processes and products including market demands. This work is essential for all students of wood science and a useful reference for those working in the pulp and paper industry or on the chemistry of renewable resources. Volume 2 focuses on creating an understanding of the chemical and technical processes involved in the production of pulp. The work treats wood handling, i.e. barking, chipping, storage and screening processes, chemistry and technology during mechanical and chemical pulp production, including pulping and bleaching chemistry and technology, production of bleaching chemicals at the mill, recovery processes, including the treatment and burning of black liquor and the white liquor preparation plant, paper recycling processes, changes in structure and properties of wood polymers and pulps in the pulping process line, description of the equipment and processes involved in the manufacturing of pulp, pulp characterization, including methods available to evaluate pulp properties, end-product requirements.
