

The background of the cover is a dramatic landscape at sunset or sunrise. A large, open book is positioned diagonally across the frame, with a lush green tree growing out of its pages. The sun is low on the horizon, creating a strong golden glow and long rays of light that pierce through the clouds. The sky is filled with soft, colorful clouds in shades of blue, orange, and yellow. The overall mood is one of inspiration and knowledge.

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# TAPPI PRESS INDUSTRY FAVORITES & RECOMMENDED READS

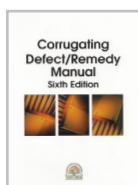
## CORRUGATED



### *Corrugated Containers Manufacturing Process*

This comprehensive textbook describes the entire process of manufacturing corrugated containers. It is designed to provide in-depth explanations and information for professionals working in all areas of the corrugated containers industry.

**Item code: 0101R281 • Member: \$81 • List: \$124**

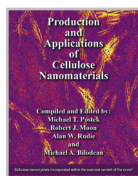


### *Corrugating Defect / Remedy Manual, Sixth Edition*

This manual provides a basis for common knowledge of terms, definitions and methods of correction of corrugated operational defects.

**Print – Item code: 0101R153 • Member: \$108 • List: \$161**

## NANOTECHNOLOGY

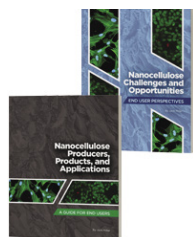


### *Production and Applications of Cellulose Nanomaterials*

The discovery of the properties and performance of cellulose nanomaterials has accelerated, yet most scientists and government bodies are unaware of their existence. This best seller is intended to bring

together leading-edge knowledge on cellulosic nanomaterials from worldwide expert sources. The scope of this book spans the range of cellulosic nanomaterials research, process and product development, and commercial exploitation and includes standards development and environmental, health, and safety issues.

**REDUCED PRICING! Item code: 0101R332 • Member: \$75 • List: \$99**



### *Nanocellulose End Users Guide and Perspectives Set*

#### **Nanocellulose: Producers, Products, and Applications, A Guide for End Users**

Provides an in-depth description of the various cellulose nanomaterials, highlights the state of the industry, and details the offerings of various suppliers, including more than 50 Profiles, many with product specifications.

#### **Nanocellulose Challenges and Opportunities: End User Perspectives**

Designed for producers to explore the commercial and technical challenges of full commercialization. The book features insights from a Survey of 40 end users and input from the End User Panel 2017

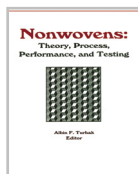
International Conference on Nanotechnology for Renewable Materials, plus

a Bonus Appendix with highlights from the 2018 End User Panel. Together, the two books form a complete set, and provide an in-depth study of the market for cellulose nanomaterials, competitive landscape, opportunities and challenges, and insight into the road ahead, state of the industry, with critical insights for producers, processors, and end users.

**Print Set - Item code: 0101R352BUN • Member: \$200 • List: \$275**

**eBook Set - Item code: 0101R352ELBUN • Member: \$160 • List: \$185**

## NONWOVENS



### *Nonwovens: Theory, Process, Performance and Testing*

Written by experts in the field of nonwovens development, engineering, and manufacture, this book can be used by industry and academia alike. As each chapter progresses from basics to advanced concepts, readers with any level of skill will derive value from this book. Contents include: overview of nonwovens; nonwoven terminology; polymer chemistry and physics; capillarity and surface phenomena; nonwoven engineering principles; wet-laid systems; dry-laid systems; polymer laid systems; filtration theory & applications; and absorbency and testing.

**Item code: 0101R199 • Member: \$93 • List: \$138**

## FLEXIBLE PACKAGING, EXTRUSION /WEB HANDLING



### *The Ultimate Roll and Web Defect Troubleshooting Guide*

Receiving international recognition by web producing and converting industry experts around the world, this book is referred to as the most comprehensive reference guide available for troubleshooting roll and web defects.

A must have communication tool for suppliers and their

customers to assist in the identification and elimination of roll and web defects. It is not just a dictionary on defects, but also gives practical and logical advice on what the cause of the problem is and how to stop the problem.

**Print - Item code: 0101R335 • Member: \$159 • List: \$207**

**eBook - Item code: 0101RWELECT • Member: \$119 • List: \$155**

**Bundle - Item code: 0101RWELECTBUN • Member: \$236 • List: \$308**

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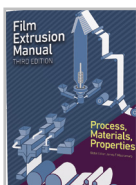
### Extrusion Coating Manual, 5th Edition

The most comprehensive, hands-on manual covering the extrusion coating process, materials, equipment, and products. The book provides expert knowledge for engineers, technicians, operators, and managers on all aspects of the modern extrusion coating process.

**Print - Item code: 0101R345 • Member: \$190 • List: \$247**

**eBook - Item code: 0101R345EL • Member: \$143 • List: \$185**

**Bundle - Item code: 0101R345BUN • Member: \$283 • List: \$367**



### Film Extrusion Manual, Third Edition

This book focuses on the technology and science of polymer film extrusion and the basics of applied extrusion theory, as well as providing troubleshooting guidelines and solutions to many common problems encountered in the manufacturing of thermoplastic

films. A stand-alone training resource for all levels of professionals and operations personnel working in the plastics film industry, including plastic film manufacturing, converting, equipment suppliers and polymer suppliers.

**Print - Item code: 0101R360 • Member: \$190 • List: \$247**

**eBook - Item code: 0101R360EL • Member: \$143 • List: \$185**

**Bundle - Item Code: 0101R360BUN • Member: \$283 • List: \$367**

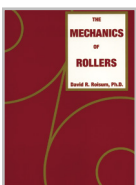


### The Web Handling Handbook

The Web Handling Handbook is a comprehensive guide to all technical aspects of handling or processing thin flexible materials written for anyone working with webs and web processes.

This engineering handbook is the first of its kind to comprehensively describe and discuss the wide range of technical aspects related to handling webs, which include paper, plastic films, foils, nonwovens, rubber, tissue, textiles and more.

**Item code: 20WEBHAN • Member: \$239 • List: \$239**



### Mechanics of Rollers

This unique book combines the science of web handling with the application of rollers and covers design, application, and maintenance for rollers of all sizes, shapes, and webs. This is a valuable, comprehensive, easy-to-use reference book

containing hundreds of figures, tables, and design equations, plus bibliography, glossary, and index.

**Item code: 0101R255 • Member: \$81 • List: \$121**

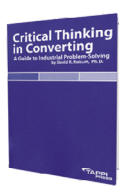


### Winding Machines: Mechanics and Measurements

This three-part book (with supplemental CD) describes the various classes and arrangements of winding machinery commonly found in the web industries.

Written in everyday language, it describes the machines we work with, the defects we see and the many measures of roll quality.

**Item code: 0102B068 • Member: \$189 • List: \$247**



### Critical Thinking in Converting

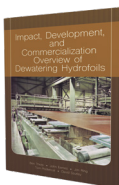
This book illustrates many different problem-solving techniques by example. The plant-proven tools introduced in this unique book will help you quickly find solutions to your toughest problems and can be adapted to uncover the inner workings of almost any specific

problem. Once the problems are understood, solution options follow easily. While this is a technical book, no special background is required.

The reader only needs a working knowledge of terminology and concepts that are common in web manufacturing and converting

**Item code: 0101R302 • Member: \$87 • List: \$131**

## PAPERMAKING



### NEW! Impact, Development, and Commercialization Overview of Dewatering Hydrofoils

Explore the unpublished history of the technical and commercial impact dewatering hydrofoils had on synthetic forming fabrics in the papermaking industry.

This unique book tells the story of the development and testing of a “game-changing” technology by retired Huyck Corp. employees directly involved.

A must read for anyone involved in papermaking wet end, as well as professors, students, paper historians and libraries holding historical documents.

**Print - Item code: 0101R367 • Member: \$35 • List: \$46**



### COMING SPRING 2024!

### Pigments for Paper and Paperboard

After 25 years, 12 experts in the field have updated this book aimed at compiling the most comprehensive information on nearly every pigment used in paper coating into one volume. The

increased emphasis on pigment technology will enable the reader to understand the fundamental properties of these materials and how these properties can be used to achieve the desired performance attributes as well as cost effectiveness.

This intermediate to introductory text serves as a practical reference for anyone in the technical areas of pulp and paper and its allied industries, especially those involved in paper and paperboard. It also serves as a reference text for college students and teachers in paper science, engineering, and related programs.

**Print - Item code: 0101R366 • Member: \$135 • List: \$176**

**eBook - Item code: 0101R366EL • Member: \$101 • List: \$132**

**Bundle: - Item code: 0101R366BUN • Member: \$201 • List: \$262**



### The Handbook for Pulp and Paper Technologists (The SMOOK Book), Fourth Edition

By far the best-selling text to introduce the entire technology of pulp and paper manufacture. The major objective of the fourth edition was to produce a readable, up-to-date,

comprehensive textbook; 13 Years in the making, approximately 90 new illustrations, updated chapters, and discusses the latest technology.

**Item code: 0202SMOOK4 • Member: \$103 • List: \$133**

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## **NEW! Process Chemicals for Papermaking**

Learn to utilize process chemicals to achieve efficient paper mill operation. This publication provides papermakers with strategic approaches utilizing papermaking additives in order to achieve paper mill efficiencies, including those related to process water usage. It is uniquely and carefully crafted and organized to present the information in an educational and practical handbook format. This book will be of interest to those involved in papermaking technology, especially if they are actively engaged in additive product innovations or developing new and improved production grade structures. It provides a general background and description of key technological challenges, including how different process additives can be used in a strategic manner to better achieve efficient and trouble-free operations.

**Print - Item code: 0101R364 • Member: \$129 • List: \$168**  
**eBook - Item code: 0101R364EL • Member: \$97 • List: \$126**  
**Bundle - Item code: 0101R364BUN • Member: \$192 • List: \$250**



## **Make Paper Products Stand Out; Strategic Use of Wet End Chemical Additives**

The goal of this publication is to help those working within the forest products industry to learn to use functional additives as a tool to gain competitive advantages. This book is recommended for papermaking technologists, managers, entrepreneurs, product developers and marketers, as well as university faculty and students at a range of levels.

**Print - Item code: 0101R361 • Member: \$95 • List: \$124**  
**eBook - Item code: 0101R361EL • Member: \$71 • List: \$93**  
**Bundle - Item code: 0101R361BUN • Member: \$141 • List: \$184**



## **Advances in Papermaking Wet End Chemistry Application Technologies**

This book highlights ways in which recent progress in equipment, automation, and procedures are providing improvements in papermaking efficiency as well as the uniformity and end-use performance of the

products. This practical publication covers technology from multiple companies and academic sources in a fair-minded way, with emphasis on selected areas of advancement of technology related to new classes of equipment, new ways of using chemical additives, and principles of how things work.

**Print - Item code: 0101R349 • Member: \$129 • List: \$168**  
**eBook - Item code: 0101R349EL • Member: \$97 • List: \$126**  
**Bundle - Item code: 0101R349BUN • Member: \$192 • List: \$250**



## **Cost Saving Strategies in Papermaking Chemistry**

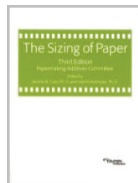
Provides cost-saving strategies associated with the use of chemical additives during the manufacture of paper. A glossary of terms and a brief introduction to selected principles of capital budgeting are provided as appendices. This book

is ideal for paper machine process engineers/scientists, paper machine superintendents, paper mill management, chemical supplier technical staff, product development engineers, paper mill consultants, and technical staff from allied industries, e.g. process control equipment, papermaking machinery, and environmental services.

**Print - Item code: 0101R325 • Member: \$150 • List: \$195**

## **Sizing of Paper, Third Edition**

This edition reflects the experiences and technologies that have developed with the new application; converting to neutral or alkaline pH wet end conditions. The



book's 22 authors collaborated to write the 17 chapters on topics like the chemistry of aluminum, soap size vs. dispersed size, fluorochemical sizing, and surface sizing additives, to name a few. This book will be useful to paper mill technical personnel, students, chemists, and mill engineers.

**Print - Item code: 0101R311 • Member: \$76 • List: \$111**



## **Starch and Starch Products in Surface Sizing and Paper Coating**

A comprehensive overview and learning aid of the various aspects of starch use in surface sizing and coating. It provides guidance to engineers, operators, and managers in the paper industry and includes an explanation of the objective pros and

cons of different available alternatives.

**Print - Item code: 0101R336 • Member: \$172 • List: \$215**  
**eBook - Item code: 0101ESTARCH • Member: \$129 • List: \$161**



## **Starch and Starch Products for Wet End Application**

This book addresses issues in the preparation and application of starch and starch products for use in the wet stages of the papermaking process. It covers a wide range of subjects in starch utilization, ranging from the preparation

of specific starch products to their use in papermaking for flocculation, retention, drainage, strength and sizing control. Environmental issues in the use of starch and analytical procedures for starch analysis and charge characterization are also addressed.

**Print - Item code: 0101R319 • Member: \$135 • List: \$200**

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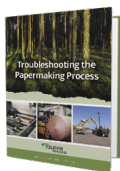


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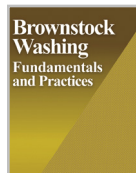


### **Troubleshooting the Papermaking Process**

This fundamental book takes the reader through the process of making paper, pointing out where interruptions can occur and where elements which are added to the system can cause problems in that part or subsequent parts of the papermaking process. This book gives papermakers and those involved in

the papermaking process the information required to allow them to understand how to track down and solve problems at their source rather than where the problems surface.

**Print - Item code: 0101R298 • Member: \$114 • List: \$149**



### **Brownstock Washing Fundamentals and Practices**

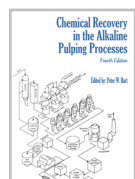
This book reviews current state-of-the-art methods for designing and operating brownstock washing systems, including: Washer types, Washer control strategy, Instrumentation, Process Control and Troubleshooting.

Recommended for pulp mill employees at any level and is highly recommend for university faculty and students as today's young engineers may not have had formal education and training due to omission of the subject from many curricula.

**Print - Item code: 0101R348 • Member: \$185 • List: \$241**

**eBook - Item code: 0101R348EL • Member: \$139 • List: \$181**

**Bundle - Item code: 0101R348BUN • Member: \$275 • List: \$359**



### **Chemical Recovery in the Alkaline Pulping Processes, Fourth Edition**

Updated by subject matter experts, this fourth edition is a practical guide for engineers and technicians reflecting advances made in technology and operating practice. The book covers the entire liquor cycle from the generation of

black liquor in the brownstock washers through evaporation, the recovery boiler, green and white liquor preparation, and lime kiln operation. New chapters include brownstock washing, best practices, and emerging technology. The black liquor chemistry chapter has been expanded and updated to include an improved description of black liquor. The materials in the emerging technology chapter are already in commercial practice, showing promise for incorporation into more mills.

**Print - Item code: 0101R365 • Member: \$150 • List: \$195**

**eBook - Item code: 0101R365EL • Member: \$113 • List: \$146**

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### **Black Liquor Evaporation**

Black Liquor Evaporation is the science, technology, and practice of successfully concentrating black liquor from weak liquor to firing concentrations. Contents include: Introduction, Kraft Pulp and Black Liquor Production Worldwide, Properties Relevant to Evaporation, Evaporation

Fundamentals, Design Principles and Analysis for Black Liquor Evaporation, Auxiliary Processes, Scaling and Fouling in Black Liquor Evaporators, Research Needs in Black Liquor Evaporation, and Terminology.

**Print - Item code: 0101R355 • Member: \$135 • List: \$176**

**eBook - Item code: 0101R355EL • Member: \$102 • List: \$132**

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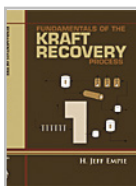




### **The Bleaching of Pulp, Fifth Edition**

The premiere industry text on bleaching technologies. Focused on modern industrial processes with less emphasis on fundamental science, this book provides comprehensive information on the technology used to bleach wood pulps. A must have for your resource library.

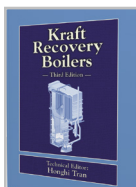
**Item code: 0101R331 • Member: \$175 • List: \$228**



### **Fundamentals of Kraft Recovery**

If you are a practicing pulp engineer wanting to know more about the kraft recovery process, this is the book for you. It provides comprehensive information on the technology used to bleach wood pulps. Each kraft recovery unit operation, including multiple effect evaporation, recovery boiler operations, green liquor processing, causticizing, and white liquor processing is discussed in detail.

**REDUCED PRICING! Item code: 0101R327 • Member: \$147 • List: \$179**

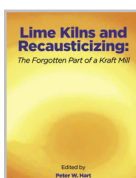


### **Kraft Recovery Boilers, Third Edition**

The book is coauthored by eight experts, who have served as instructors of the TAPPI Kraft Recovery Course for many years. It contains sixteen chapters, covering various aspects of recovery boiler technology, such as: chemical principles, black liquor properties, sprays and combustion/char bed

characteristics. It also covers operating issues including fouling and plugging, sootblowing, corrosion and cracking, particulate and gas emissions, safety, and control design principles. Sponsored by the Recovery Boiler Program R&D Subcommittee of the American Forest & Paper Association (AF&PA) and published by TAPPI Press. This third edition is now part of TAPPI's Kraft Recovery Course curriculum.

**Print - Item code: 0101R358 • Member: \$188 • List: \$244**



### **NEW! Lime Kilns and Recausticizing: The Forgotten Part of a Kraft Mill**

Overlooked in most textbooks, this book contains a practical, in depth description of lime kilns and recausticizing practice and operation. Topics include: burner operation, alternative fuels, ring and ball

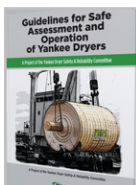
formation, and slakers and causticizers. An educational tool for a young practicing engineer learning the operation of the calcium cycle to improve operation or a refresher and reference for seasoned professionals.

**Print - Item code: 0101R362 • Member: \$157 • List: \$200**

**eBook - Item code: 0101R362EL • Member: \$118 • List: \$150**

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## **TISSUE**



### **Guidelines for Safe Assessment and Operation of Yankee Dryers**

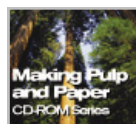
Safety is the responsibility of each dryer manufacturer and operator. This book was prepared by volunteers of TAPPI's Yankee Dryer Safety Subcommittee for the purpose of providing suggested guidelines to aid in the

safe operation and management of Yankee Dryers. Topics Include: The Corporate Yankee Dryer Safety System, Design differences: TAD, DC, MG, and Hybrid, Inspection Practices and Principles, Operations Monitoring, Protection Devices, and Repairs and Alterations.

**Print - Item code: 0101R357 • Member: \$92 • List: \$119**

**eBook - Item code: 0101R357EL • Member: \$69 • List: \$90**

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### **Towel and Tissue Papermaking CD**

This self-paced CD informs participants on the subject of towel and tissue papermaking terms, concepts, and processes. It explains how the manufacturing of towel and tissue grades of paper is different from other grades of paper, describes the different types of tissue formers and explains the TAD process and its advantages and disadvantages.

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### **NEW! ForestBioFacts (FBF) digital learning platform from the Finnish Forest Products Engineers' Association (PI)**

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**C**elebrating its 50th anniversary in 2024, TAPPI Academy is the premier technical education and training center of excellence for the worldwide pulp, paper, tissue, corrugated packaging, flexible packaging and converting industries. TAPPI Academy offers more than 15-20 face-to-face courses annually in addition to numerous online courses and webinars for members and their employees to develop new skills and learn the latest technological advances.

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### Introduction to Pulp and Paper Technology Course

This introductory to intermediate-level course provides you with increased confidence in understanding the pulp and paper processes. Learn how to interact more knowledgeably with process engineers and operators and increase your ability to contribute to improving mill operations.

Celebrating its 50th Anniversary in 2024, this training event is the most comprehensive and highest-rated of all TAPPI courses! The course offers content covering technology, including "what" happens, and "why" things happen in today's pulping and papermaking industries.

This course provides the foundation for learning advanced topics more quickly. TAPPI Fellow and Paper Industry International Hall of Fame Inductee, Dr. Michael Kocurek, alongside Thomas Holm, deliver the curriculum of this four-day course. Dr. Kocurek is celebrating his 50th year teaching this course.

**DATE:**

January 8-11, 2024

**LOCATION:**

St. Petersburg, Florida

**WHO SHOULD ATTEND:**

New industry/position individuals from mills and corporate suppliers.

**CREDIT:**

Earn 26 professional development hours or 2.6 CEUs.



### Kraft Recovery Operations Course

This intermediate course examines key recovery operations in kraft pulp mills to help you increase your ability to improve pulp production efficiency while minimizing operating costs and environmental problems. The course will cover chemistry, physics and engineering principles related to kraft recovery.

This successful curriculum has been continually peer-reviewed, updated and delivered effectively for 39 years! The Kraft Recovery Faculty of internationally recognized experts will provide practical day-to-day information through presentations, Q&A sessions, quizzes and exercises during this four-day course.

**DATE:**

January 8-11, 2024

**LOCATION:**

St. Petersburg, Florida

**WHO SHOULD ATTEND:**

Pulp mill operations personnel, including engineers and superintendents, senior pulp mill operators, process engineers, technical sales and support staff, graduate students, or anyone looking for new kraft recovery ideas or a refresher.

**CREDIT:**

Earn 2.6 CEUs.



*TAPPI's Introduction to Pulp and Paper Technology Course and Kraft Recovery Operations Course will both be offered again January 13 - 16, 2025 in St. Petersburg, FL, offering an excellent opportunity to network with peers and industry experts in one place.*





## We're bringing Tissue Week to Neenah, WI May 13-17th

### Tissue 101: Properties and Processes Course

Get a solid understanding of tissue properties and how they are impacted by manufacturing processes, to help you effectively achieve production goals and objectives for your mill.

**DATE:**  
May 13-15, 2024

**LOCATION:**  
Neenah, WI

**WHO SHOULD ATTEND:** Individuals new to the Tissue industry or seasoned professionals, including engineers, sales staff, or management.

**CREDIT:**  
Earn 15 professional development hours or 1.5 CEU's.



### Tissue 201: Operations and Runnability Course

This intermediate to advanced-level course is designed to help you improve tissue quality and consistency, understand contributors to waste and downtime, learn reliability and maintenance best practices and diagnose and troubleshoot problems quickly.

**DATE:**  
May 15-17, 2024

**LOCATION:**  
Neenah, WI

**WHO SHOULD ATTEND:** Engineers, machine supervisors and operators, suppliers or other technical individuals who are new to tissue grades.

**CREDIT:**  
Earn 16 professional development hours or 1.6 CEU's.



## Flexible Packaging Courses

### Blown and Cast Film Extrusion Course

In this introductory-to-intermediate level course, you will learn about common resins used and equipment from the extruder through to the winder utilized in both blown and cast film applications processes. In addition, there will be discussions on troubleshooting problems such as the occurrence of gels and winding defects.

**DATE:**  
February 27-29, 2024

**LOCATION:**  
Savannah, GA

**WHO SHOULD ATTEND:** Extrusion engineers, technical assistants, directors and superintendents, R&D personnel operators, equipment and resin suppliers. For maximum benefit, you should have a very basic knowledge of film extrusion coating technology and the ability to use this information to improve existing film extrusion processes.



### Extrusion Coating Course

Since 2005, TAPPI's Extrusion Coating Course has been providing knowledge and resources necessary for introductory extrusion coating professionals to succeed. The course is packed with information presented by leading experts who will discuss best practices and common process problems in extrusion coating. You will learn the basics about resin, coating and equipment technology, how to streamline processes, address safety concerns, manage product design requirements and maintain equipment. Today, the Extrusion Coating Course is the leading introductory event of its kind in the industry.

**DATE:**  
August 13-15, 2024

**LOCATION:**  
Cincinnati, Ohio

**WHO SHOULD ATTEND:** Introductory employees and operators, young professionals and established professionals that need a refresher.



# Pulp and Paper Courses

## Paper Machine Operations Course

This introductory to intermediate level course is designed to help you build confidence and knowledge of overall paper machine operations. Gain an understanding of the mechanical components and operations of the paper machine that affect the structure and quality of paper, learn to identify design and operation features, and discover methods to improve your paper machine efficiency and product quality.

TAPPI's Paper Machine Operations Course offers you unbiased, peer-reviewed content delivered by top-level faculty with exceptional credentials. Instructors emphasize that you'll find the cost of this training delivers far more value in paper machine efficiency and performance. This course is focused on the paper and paperboard machine. Tissue 201 focuses on tissue machine operation.

### DATE:

May 21-23, 2024

### LOCATION:

Greenville, South Carolina

### WHO SHOULD ATTEND:

Paper machine operators, technicians, engineers, suppliers and consultants, sales representatives, or any individual with minimal experience around a paper machine.

### CREDIT:

Earn 2.0 CEU's.



## Introduction to Kraft Pulping and Bleaching Course

This introductory to intermediate-level course will help you expand your overall understanding of kraft pulp mill operations and broaden your awareness of how one part of the process affects other operations. With this knowledge, you'll be better equipped to troubleshoot quality problems and feel more confident in your interactions with process engineers and operators.

The Introduction to Kraft Pulping and Bleaching course is one of TAPPI's most successful annual training events. Course Chair, Dr. Michael Kocurek, shares his collection of more than 1,000 visuals during the program, which you'll have for review later at your mill.

### DATE:

August 6-7, 2024

### LOCATION:

Peachtree Corners, GA

### WHO SHOULD ATTEND:

This course is ideal for anyone new to the kraft pulping process, particularly process engineers, machine operators, kraft pulp operators and suppliers.

### CREDIT:

Earn 1.3 CEU's.



## Introduction to Wet End Chemistry Course

This introductory course provides you with a foundation upon which to develop effective wet end chemistry troubleshooting and optimization programs for your company. This course is designed to facilitate an understanding of improved product quality, increased machine productivity and cost reduction.

### DATE:

June 11-13, 2024

### LOCATION:

Peachtree Corners, GA

### WHO SHOULD ATTEND:

This course is designed for superintendents, product developers, process engineers, process and quality control technicians and suppliers.







## PAPER MANUFACTURING ONLINE COURSES

Available to Individuals and as Site Licenses

**COURSE FORMAT:** Comprehensive videos and figure based visuals presented by subject matter experts.



### ► Paper Manufacturing Technology

A comprehensive overview of papermaking technology, process variables, equipment, and terminology. [33 Learning Modules](#)  
**Item Code: ELN-001 • Member: \$950 • List: \$1,235**  
**Professional Certificate Item Code: ELT-PAP • \$270**

### ► Paper Coating Technology

Comprehensive overview of printing methods, impact of pigment selection, chemistry and properties of starch and protein binders, materials and equipment. [26 Learning Modules](#)  
**Item Code: ELN-007 • Member: \$950 • List: \$1,235**

### ► Paper Machine Optimization

Intermediate in scope, topics are concentrated on wet end operations, pressing, and dry end operations. [56 Learning Modules](#)  
**Item Code: ELN-009 • Member: \$950 • List: \$1,235**

### ► Wet End Chemistry

Papermaking materials such as fillers and chemical additives and how chemicals are used to control product attributes and improve process efficiency. [31 Learning Modules](#)  
**Item Code: ELN-006 • Member: \$950 • List: \$1,235**

### ► Paper Properties & Testing Labs

Demonstrates procedures used to test paper and board, providing background about the property being tested and an understanding of what the tests are telling us. [22 Learning Modules](#)  
**Item Code: ELN-011 • Member: \$550 • List: \$700**

**COURSE FORMAT:** Concise narrated animation of components and processes

### ► Broke Systems

This course includes: broke cleaning and screening, under-machine repulpers and system inventory management. [5 Learning Modules](#)  
**Item Code: ELC-011 • Member: \$220 • List: \$295**

### ► Chemical Additives

This course includes: starch cooking and wet end chemistry. [4 Learning Modules](#)  
**Item Code: ELC-012 • Member: \$177 • List: \$230**

### ► Converting

This course includes: sheeting of paper, palletizing and paper ream packing. [3 Learning Modules](#)  
**Item Code: ELC-026 • Member: \$132 • List: \$173**

### ► Dry End Equipment

This course includes: calendaring, carrier copes, QCS Scanners, paper coating, reel systems, tail threading and web guiding and spreading. [11 Learning Modules](#)  
**Item Code: ELC-013 • Member: \$485 • List: \$630**

### ► Finishing

This course includes: winding, pulp drying and baling, and roll handling and wrapping. [4 Learning Modules](#)  
**Item Code: ELC-014 • Member: \$177 • List: \$230**

### ► Forming

This course includes: forming fabrics, fourdriniers, twin-wire formers, sheet formation and wet edge control. [8 Learning Modules](#)  
**Item Code: ELC-015 • Member: \$353 • List: \$459**

### ► General Papermaking

This course includes: general papermaking processes, as well as doctor blades, safety and steam theory. [6 Learning Modules](#)  
**Item Code: ELC-016 • Member: \$265 • List: \$344**

### ► Headboxes

This course includes: air-padded headboxes, hydraulic headboxes and stock jet geometry. [4 Learning Modules](#)  
**Item Code: ELC-017 • Member: \$177 • List: \$230**

### ► Paper Machine Auxiliary Systems

This course includes: auxiliary systems in the paper machine process, such as hydraulic systems, lubrication systems, drives and vacuum systems. [8 Learning Modules](#)  
**Item Code: ELC-018 • Member: \$353 • List: \$459**

### ► Paper Machine Dryers

This course includes: dryer felts, alternative drying systems, cascade steam systems, dryer hoods, size presses and thermocompressor steam systems. [8 Learning Modules](#)  
**Item Code: ELC-019 • Member: \$353 • List: \$459**

### ► Paper Properties and Testing

This course includes: paper and board physical tests, optical tests, strength tests and process testing. [4 Learning Modules](#)  
**Item Code: ELC-020 • Member: \$177 • List: \$230**

### ► Stock Approach

This course includes: centrifugal cleaners, deaeration, thin stock screening and thin stock system design. [4 Learning Modules](#)  
**Item Code: ELC-021 • Member: \$177 • List: \$230**

### ► Stock Preparation

This course includes: high consistency refining, high density cleaners, refining, thick stock system design and pH and consistency control. [5 Learning Modules](#)  
**Item Code: ELC-022 • Member: \$221 • List: \$287**

### ► Storage and Shipping

This course includes: preventing paper roll damage, storage and tracking, truck trailer loading and railcar loading. [5 Learning Modules](#)  
**Item Code: ELC-023 • Member: \$221 • List: \$287**

### ► Wet Pressing

This course includes: felt cleaning and conditioning, suction rolls and roll covers, roll presses, shoe presses, steam boxes and wet pressing theory. [7 Learning Modules](#)  
**Item Code: ELC-024 • Member: \$309 • List: \$402**

### ► White Water and Filtrate Systems

This course includes: DAF Systems, strainers and filters, circulation loops, clarification and white water system design. [6 Learning Modules](#)  
**Item Code: ELC-025 • Member: \$265 • List: \$344**

Visit [tappi.org/elearning](http://tappi.org/elearning) to view course descriptions and previews.

Online Training available for Individual Users as well as Company Licenses.  
For more information contact [training@tappi.org](mailto:training@tappi.org).



# PULP MANUFACTURING ONLINE COURSES

Available to Individuals and as Site Licenses

**COURSE FORMAT:** Comprehensive videos and figure based visuals presented by subject matter experts.



## ► Pulp Manufacturing Technology, 2nd Edition

Overview of pulp processing & bleaching technology, process variables and equipment. **26 Learning Modules**  
**Item Code: ELN-003V2 • Member: \$950 • List: \$1,235**  
**Professional Certificate Item Code: ELT-PULP • \$270**

## ► Chemical Recovery

Includes operations, terminology, equipment and process variables.  
**12 Learning Modules**  
**Item Code: ELN-004 • Member: \$415 • List: \$618**

## ► Environmental Control

U.S. Environmental laws and regulations, air emission compounds and sources, air treatment options, activated sludge and aerated lagoon operation.  
**10 Learning Modules**  
**Item Code: ELN-005 • Member: \$415 • List: \$618**

## ► Technology and Science of Paper Recycling

Review of recycling processes and issues, including quality of the raw materials, requirements to be environmentally friendly and strategies to produce pulp at the lowest cost.  
**34 Learning Modules**  
**Item Code: ELN-008 • Member: \$950 • List: \$1,235**

## ► Pulp Properties and Testing Labs

Overview of laboratory safety, chip evaluations, pulping liquor analysis, pulping, bleaching of pulp, analysis and testing of pulp, and recycling.  
**6 Learning Modules**  
**Item Code: ELN-010 • Member: \$550 • List: \$700**

**COURSE FORMAT:** Concise narrated animation of components and processes

## ► Bleaching

This course includes: alkaline extraction, bleaching equipment, sequences and filtrate recycling, chlorine dioxide generation and oxygen delignification. **11 Learning Modules**  
**Item Code: ELC-027 • Member: \$485 • List: \$630**

## ► Environmental

This course includes: CNCG Systems, contaminated condensate systems, HVLC Systems and wastewater systems.  
**6 Learning Modules**  
**Item Code: ELC-028 • Member: \$265 • List: \$344**

## ► Evaporators

This course includes: black liquor evaporator operations, equipment, principles and testing. **5 Learning Modules**  
**Item Code: ELC-029 • Member: \$221 • List: \$287**

## ► Fiber Supply

This course includes: log handling and chip storage, chip screening, paper fiber sources and wood properties and chip quality testing. **4 Learning Modules**  
**Item Code: ELC-030 • Member: \$177 • List: \$230**

## ► Kraft Pulping

This course includes: batch cooking, blow line refining, brown stock systems, digesters and kraft pulping by-products.  
**12 Learning Modules**  
**Item Code: ELC-031 • Member: \$529 • List: \$688**

## ► Recast

This course includes: dregs washing, electrostatic precipitators, exhaust gas scrubbers, green liquor clarifiers, lime kilns, lime mud filtering, slaking and causticizing.  
**12 Learning Modules**  
**Item Code: ELC-032 • Member: \$529 • List: \$688**

## ► Recovery

This course includes: fluidized bed boilers, kraft recovery boilers and baghouses.  
**9 learning modules**  
**Item Code: ELC-033 • Member: \$397 • List: \$516**

## ► Supplemental and Recycled Fiber

This course includes: OCC and supplemental and recycled fiber processes.  
**13 Learning Modules**  
**Item Code: ELC-034 • Member: \$573 • List: \$745**

Visit [tappi.org/elearning](http://tappi.org/elearning) to view course descriptions and previews.

Online Training available for Individual Users as well as Company Licenses.

For more information contact [training@tappi.org](mailto:training@tappi.org).



## TAPPI Press Industry Appreciation Program

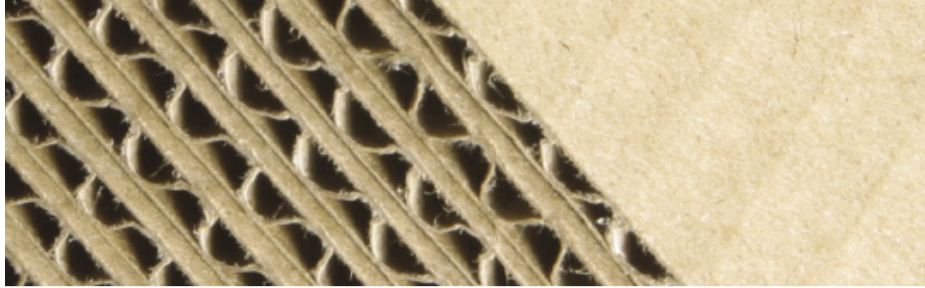
Give your staff and customers a copy of a TAPPI Press book labeled with a "Compliments of {Company}" decal that prominently showcases your organization's four-color logo. This thoughtful gift demonstrates your commitment to the industry as well as to the recipients' continuing education. For more information, contact TAPPI Press at [press@tappi.org](mailto:press@tappi.org).

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# CORRUGATED PACKAGING ONLINE COURSES

Available to Individuals and as Site Licenses

**COURSE FORMAT:** Concise narrated animation of components and processes.

## Corrugated Packaging Box Plant Basics

Fundamental corrugated packaging and box training including material manufacturing and converting processes. Includes equipment and process descriptions, performance testing and plant safety. 10 Learning Modules

10 Learning Modules

Item Code: ELC-CORRC • Member: \$440 • List: \$572

### ► Board Tests

Describes tests used to predict the stacking performance of corrugated board boxes, performance of corrugated boxes during handling and tests.

Item Code: ELC-006 • Member: \$49 • List: \$63

### ► Box Plant Equipment Basics

Introduces common box plant equipment and processes, and discusses equipment layout, material flows, and storage considerations.

Item Code: ELC-009 • Member: \$49 • List: \$63

### ► Corrugated Box Basics

This course will familiarize you with some common industry terms, describe popular corrugated board and corrugated box styles, and discuss usage considerations.

Item Code: ELC-001 • Member: \$49 • List: \$63

### ► Corrugating Adhesives

Includes a brief history of corrugating adhesives and describes the purpose or function of the ingredients in modern, starch-based corrugating adhesives.

Item Code: ELC-008 • Member: \$49 • List: \$63

### ► Corrugators

Includes: wet end components, preconditioning and preheating, pressure rolls, adhesive application, double facer glue unit and hot plate section, dry end components, stacker and double and triple wall corrugators.

Item Code: ELC-005 • Member: \$49 • List: \$63

### ► Die Cutters

Describes corrugated board and box making equipment, design and operation of rotary and platen die cutters, as well as in-line sectional die cutter machines.

Item Code: ELC-007 • Member: \$49 • List: \$63

### ► Flexo Folder-Gluers

Describes the design and operation of the machine sections including: the feed section, printing section, creaser-slitter, die cutter, glue lap unit, folding section and delivery end.

Item Code: ELC-010 • Member: \$49 • List: \$63

### ► Other Box Plant Equipment

Describes the design and operation of equipment, including printer-slotter, folder-gluers, stitchers, tapers, laminators, presses, litho-laminators, bundlers and palletizers.

Item Code: ELC-002 • Member: \$49 • List: \$63

### ► Raw Materials

Describes wood fiber sources. Chemical pulping and papermaking processes, and various glues, inks and coatings used in the production of corrugated board and corrugated boxes.

Item Code: ELC-004 • Member: \$49 • List: \$63

### ► Safety

Discusses safe work behaviors, equipment safety hazards, stored energy and chemical hazards, emergency stops, as well as vehicle and pedestrian hazards.

Item Code: ELC-003 • Member: \$49 • List: \$63



## More Than A Box: Box Plant 101

TAPPI PRESS in conjunction with Green Bay Packaging, developed this interactive video on how boxes are made. It is recommended for new employee orientation as well as general promotion of the corrugated process.

Learn the corrugated manufacturing process from seedling to box. This self-paced instructional video takes you through each stage for producing a quality box. Includes a view of a typical box plant, how a quality box is made, an overview of the corrugator, review of materials handling, comprehension questions, definitions and accompanying video clips.

- Double face liner
- Medium (flute) and single face liner
- Single, Double and Triple Wall Corrugated Box
- Wet End and Dry End
- Five common flute sizes A-F
- Hot Plate Slitter, Scorer and Cut off knife

DVD Item Code: 0101R338

Member Price: \$75 • Non-member Price: \$96

Streaming Video Item Code: 0101R334

Member Price: \$30 • Non-member Price: \$40

Contact [training@tappi.org](mailto:training@tappi.org) to hear about company licenses.





## TISSUE MANUFACTURING ONLINE COURSES

Available to Individuals and as Site Licenses

**COURSE FORMAT:** Comprehensive videos and figure based visuals presented by subject matter experts.



### ► Tissue Manufacturing Technology

A comprehensive introductory-to-intermediate overview of covering tissue properties, fiber raw materials, refining, wet end additives, tissue machines, drying and creping processes.

26 Learning Modules

Item Code: ELN-002 • Member: \$950 • List: \$1,235

### ► TAPPI Tissue 101: Processes and Properties

Introductory course designed to increase understanding of tissue performance properties and

manufacturing. Includes a comprehensive overview of the manufacturing process and effect on product performance properties.

14 Learning Modules • Professional Certificate available

Item Code: ELT-T101 • Member: \$525 • List: \$650

Certificate Item Code: ELT-CERTPP • \$270

### ► TAPPI Tissue 201: Operations and Runnability

Intermediate-to-advanced level course designed to improve tissue quality and consistency including contributors to waste and downtime. Course includes: reliability, maintenance best practices, and how to troubleshoot problems quickly.

13 Learning Modules • Professional Certificate available

Item Code: ELT-T201 • Member: \$525 • List: \$650

Certificate Item Code: ELT-CERTOR • \$270

### ► NEW! Introduction to Tissue Converting

Overview of converting process from unwind stands to

the log saw; machinery and processes of rolled products explained with animations, descriptions and voice-overs.

Item Code: ELK-001 • Member: \$325 • List: \$425

### ► NEW! Introduction to Tissue Packaging

Utilizes animations, descriptions and voice-overs to describe the tissue wrapping process; breaks down each sub section and process of a multi-layer poly wrapper and bundler.

Item Code: ELK-002 • Member: \$175 • List: \$225

### ► NEW! Introduction to Tissue Converting AND Introduction to Tissue Packaging

Bundle of both courses.

Item Code: ELK-SET • Member: \$450 • List: \$585

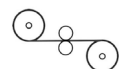
### ► NEW! Yankee Dryer Overview

Introductory to intermediate course. Topics include: Yankee dryer design and construction, steam and condensate systems, dryer coating, hoods, air systems, safety and dry creping basics.

Item Code: ELC-037 • Member: \$220 • List: \$295

## WINDING, WEB HANDLING AND CONVERTING ONLINE COURSES

**COURSE FORMAT:** Comprehensive videos and figure based visuals presented by subject matter experts.



### ► NEW! Web Handling and Converting

Learn to eliminate wrinkles, baggy webs and apply effective spreading. Eliminate winding defects and troubleshoot a variety of web, web handling and converting issues. Design and

maintain web machinery, control systems for tension, nip, guiding and design processes for more reliable manufacturing.

Item Code: ELR-001 • Member: \$499 • List: \$599

Company Licensing Available

### ► NEW! Web Winding: Machines, Mechanics, and Measurements

Eliminate winding defects; know whether your

defect is manufacturing or winding related or both and troubleshoot a variety of web, winding and operational issues. Design and maintain winding machinery, winder control systems for tension, nip and torque and design and manufacture webs for more reliable winding.

Item Code: ELR-002 • Member: \$499 • List: \$599

Company Licensing Available



## TAPPI PROFESSIONAL CERTIFICATES

Our Professional Certificate exams are developed by industry practitioners who uniquely understand the technical knowledge and experience required for superior performance in the global forest products environment.

### AVAILABLE CERTIFICATES:

#### Tissue 101: Properties & Processes

This certificate ensures you demonstrate competency in critical tissue manufacturing knowledge, including:

- Overall understanding of the tissue making process and best practices for runnability and consistency
- Principles of wet end chemistry and furnish on tissue properties
- Procedures for cleaning and conditioning of felts and wires
- Understanding how to troubleshoot common contributors to waste and downtime on the tissue machine

#### Tissue 201: Operations and Runnability

This certificate confirms you have exceptional understanding of tissue manufacturing basics including:

- Web-fiber networks and physical properties test methods
- Wet-end chemistry and control
- Forming, water removal and drying processes
- Sheet and roll handling and converting

#### Introduction to Pulp and Paper Technology

This certificate ensures you demonstrate competency in basic pulp and paper manufacturing knowledge, including:

- Pulp mill operations
- Paper mill operations

For more information, visit [tappi.org/certificate](http://tappi.org/certificate) or contact us at [training@tappi.org](mailto:training@tappi.org).



# REFERENCE SECTION

For complete descriptions visit [www.tappi.org/bookstore](http://www.tappi.org/bookstore).

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
<b>A</b>			
ABECEDARIO DE PULPA Y PAPEL (PULP AND PAPER PRIMER), SPANISH TRANSLATION	0101R110S	\$13.00	\$19.00
ADHESION SCIENCE PRINCIPLES AND PRACTICES	18ASPP	\$133.00	\$174.00
ADVANCES IN LIGNOCELLULOSICS CHARACTERIZATION	0101R280	\$127.00	\$191.00
<b>ADVANCES IN PAPERMAKING WET END CHEMISTRY APPLICATION TECHNOLOGIES - PRINT</b>	<b>0101R349</b>	<b>\$129.00</b>	<b>\$168.00</b>
<b>ADVANCES IN PAPERMAKING WET END CHEMISTRY APPLICATION TECHNOLOGIES - EBOOK</b>	<b>0101R349EL</b>	<b>\$97.00</b>	<b>\$126.00</b>
<b>ADVANCES IN PAPERMAKING WET END CHEMISTRY APPLICATION TECHNOLOGIES - PRINT &amp; EBOOK</b>	<b>0101R349BUN</b>	<b>\$192.00</b>	<b>\$250.00</b>
ANILOX ROLL-HEART OF THE FLEXO PROCESS, THE, SECOND EDITION	0101R322	\$119.00	\$146.00
APPLIED NANOTECHNOLOGY: THE CONVERSION OF RESEARCH RESULTS	11APNAN-2	\$150.00	\$160.00
<b>B</b>			
BINDER MIGRATION IN PAPER AND PAPERBOARD COATINGS	0101R203	\$54.00	\$81.00
BINDERS & ADDITIVES ANTHOLOGY CD	0101R340	\$81.00	\$108.00
BIOMASS AND ALTERNATE FUEL SYSTEMS	10BIOALT	\$70.00	\$89.00
BIOMASS TO BIOFUELS: STRATEGIES FOR GLOBAL INDUSTRIES	11BIOFUELS	\$83.00	\$90.00
BIOMASS TO RENEWABLE ENERGY PROCESSES, SECOND EDITION	17BIOMASS	\$159.00	\$174.00
BIOMASS, GASIFICATION, PYROLYSIS AND TORREFACTION, SECOND EDITION	15PYROL	\$125.00	\$135.00
BIOREFINING OF FOREST RESOURCES, SECOND EDITION	0202FIN20-2	\$137.00	\$137.00
<b>BLACK LIQUOR EVAPORATION - PRINT</b>	<b>0101R355</b>	<b>\$135.00</b>	<b>\$176.00</b>
<b>BLACK LIQUOR EVAPORATION - EBOOK</b>	<b>0101R355EL</b>	<b>\$102.00</b>	<b>\$132.00</b>
<b>BLACK LIQUOR EVAPORATION - PRINT AND EBOOK</b>	<b>0101R355BUN</b>	<b>\$201.00</b>	<b>\$261.00</b>
BLEACHING - CD (MAKING PULP & PAPER SERIES)	MPP-07	\$59.00	\$89.00
<b>BLEACHING OF PULP, THE</b>	<b>0101R331</b>	<b>\$175.00</b>	<b>\$228.00</b>
BOILER WATER TREATMENT PRINCIPLES AND PRACTICE, VOLUME 1:	16BOILER1	\$125.00	\$135.00
BOILER BASICS AND STEAM WATER CHEMISTRY			
BOILER WATER TREATMENT PRINCIPLES AND PRACTICE, VOLUME 2:	16BOILER2	\$125.00	\$135.00
TREATMENTS PROGRAM DESIGN AND MANAGEMENT			
BOILER WATER TREATMENT PRINCIPLES AND PRACTICE: CHARTS AND NOTES FOR FIELD USE	16BOILER3	\$65.00	\$75.00
<b>BROWNSTOCK WASHING: FUNDAMENTALS AND PRACTICES - PRINT</b>	<b>0101R348</b>	<b>\$185.00</b>	<b>\$241.00</b>
<b>BROWNSTOCK WASHING: FUNDAMENTALS AND PRACTICES - EBOOK</b>	<b>0101R348EL</b>	<b>\$139.00</b>	<b>\$181.00</b>
<b>BROWNSTOCK WASHING: FUNDAMENTALS AND PRACTICES - PRINT AND EBOOK</b>	<b>0101R348BUN</b>	<b>\$275.00</b>	<b>\$359.00</b>
<b>C</b>			
<b>CALCULATION SPREADSHEET FOR T 545 (CROSS-MACHINE GRAMMAGE PROFILE MEASUREMENT (GRAVIMETRIC METHOD) &amp; TIP 1101 (CALCULATION &amp; PARTITIONING OF VARIANCE USING PAPER MACHINE)</b>	<b>T545 TIP1101CS</b>	<b>\$27.00</b>	<b>\$38.00</b>
CARTONS, CRATES & CORRUGATED BOARD: HANDBOOK OF PAPER & WOOD PACKAGING TECHNOLOGY	08HPWPT	\$140.00	\$150.00
CELEBRATING A CENTURY OF ACHIEVEMENT - TAPPI 100 YEAR BOOK	0101R342	\$53.00	\$64.00
CELLULOSIC NANOCRYSTALS: PROPERTIES, PRODUCTION AND APPLICATIONS	17CELLNANO	\$135.00	\$162.00
CHEMICAL ANALYSIS OF INDUSTRIAL WATER	16CAIW	\$110.00	\$120.00
CHEMICAL ENGINEERING OF POLYMERS: PRODUCTION OF FUNCTIONAL & FLEXIBLE MATERIALS	18CEP	\$159.00	\$207.00
CHEMICAL PROCESSING AIDS IN PAPERMAKING: A PRACTICAL GUIDE	0101R192	\$86.00	\$129.00
<b>CHEMICAL PULPING PART 1, FIBRE CHEMISTRY AND TECHNOLOGY, SECOND EDITION</b>	<b>0202FIN06-2B</b>	<b>\$170.00</b>	<b>\$170.00</b>
<b>CHEMICAL PULPING PART 2, RECOVERY OF CHEMICALS AND ENERGY, SECOND EDITION</b>	<b>0202FIN06-2C</b>	<b>\$137.00</b>	<b>\$137.00</b>
CHEMICAL RECOVERY & ENERGY PRODUCTION - CD (MAKING PULP & PAPER SERIES)	MPP-05	\$59.00	\$89.00
<b>CHEMICAL RECOVERY IN THE ALKALINE PULPING PROCESSES, FOURTH EDITION - PRINT</b>	<b>0101R365</b>	<b>\$150.00</b>	<b>\$195.00</b>
<b>CHEMICAL RECOVERY IN THE ALKALINE PULPING PROCESSES, FOURTH EDITION - EBOOK</b>	<b>0101R365EL</b>	<b>\$113.00</b>	<b>\$146.00</b>

**BOLD - BEST SELLER • RED - NEW PRODUCTS**

# REFERENCE SECTION

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
<b>CHEMICAL RECOVERY IN THE ALKALINE PULPING PROCESSES, FOURTH EDITION - PRINT &amp; EBOOK</b>	<b>0101R365BUN</b>	<b>\$224.00</b>	<b>\$290.00</b>
CHEMICAL TREATMENT OF BOILER WATER, THE	16CTBW	\$65.00	\$75.00
CHEMICAL TREATMENT OF COOLING WATER, THE, SECOND EDITION	16CTCW	\$110.00	\$120.00
CHEMISTRY OF MODERN PAPERMAKING	11CHEM	\$159.00	\$179.00
"COATING PROCESSES, THE	0102B057	\$111.00	\$167.00
COLLOID CHEMISTRY OF PAPERMAKING MATERIALS	0101R306	\$67.00	\$100.00
CONDITION MONITORING STANDARDS, VOLUME 1	10CMS1	\$195.00	\$235.00
CONDITION MONITORING STANDARDS, VOLUME 2	10CMS2	\$195.00	\$235.00
CONDITION MONITORING STANDARDS, VOLUME 3	10CMS3	\$195.00	\$235.00
CONDITION MONITORING STANDARDS, VOLUME 4	10CMS4	\$195.00	\$235.00
CONDITION MONITORING STANDARDS COMBO - SET (VOLUMES 1-4)	10CMSSET	\$745.00	\$769.00
COOLING WATER TREATMENT: PRINCIPLES AND PRACTICE	16COOL1	\$215.00	\$225.00
COOLING WATER TREATMENT PRINCIPLES AND PRACTICES: CHARTS AND FIELD NOTES	16COOL2	\$35.00	\$45.00
CORROSION OF PLASTICS & RUBBER IN PROCESS EQUIPMENT - EXPERIENCES FROM THE PULP & PAPER INDUSTRY	0101R206	\$81.00	\$121.00
<b>CORRUGATED ADHESIVES PREPARATION, FIFTH EDITION</b>	<b>0101R301</b>	<b>\$108.00</b>	<b>\$162.00</b>
CORRUGATED CONTAINERS MANUFACTURING PROCESS, THE	0101R281	\$81.00	\$124.00
CORRUGATED CROSSROADS: A REFERENCE GUIDE FOR THE CORRUGATED CONTAINERS INDUSTRY	0101R254	\$89.00	\$131.00
<b>CORRUGATING DEFECT / REMEDY MANUAL, SIXTH EDITION - PRINT</b>	<b>0101R153</b>	<b>\$108.00</b>	<b>\$161.00</b>
MANUAL DE DEFECTOS/REMEDIOS EN LA CORRUGACION, SEXTA EDICION	0101R153CDS	\$94.00	\$140.00
CORRUGATOR BONDING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS, SECOND EDITION	0101R265	\$81.00	\$105.00
CORRUGATOR MONITOR	0101R285	\$27.00	\$41.00
CORRUGATOR ROLL WEAR MEASUREMENT	0101R261	\$27.00	\$41.00
<b>COST SAVING STRATEGIES IN PAPERMAKING CHEMISTRY</b>	<b>0101R325</b>	<b>\$150.00</b>	<b>\$195.00</b>
CREATING VALUE THROUGH PACKAGING - UNLOCKING A NEW BUSINESS & MANAGEMENT STRATEGY	12CVTP	\$50.00	\$60.00
<b>CRITICAL THINKING IN CONVERTING</b>	<b>0101R302</b>	<b>\$87.00</b>	<b>\$131.00</b>
<b>CROSS-DIRECTIONAL CD MAPPING TOOL (SINGLE USER)</b>	<b>CDMAPTOOL</b>	<b>\$50.00</b>	<b>\$65.00</b>
<b>CROSS-DIRECTIONAL CD MAPPING TOOL (SHARED ACCESS-UP TO 5 USERS)</b>	<b>CDMAPTOOLSITE</b>	<b>\$100.00</b>	<b>\$100.00</b>
STRATEGIES: CORPORATE SOCIAL RESPONSIBILITY FOR A COMPETITIVE EDGE IN EMERGING MARKETS	10CSR	\$29.00	\$35.00
<b>D</b>			
DICTIONARY OF PAPER, FIFTH EDITION - PRINT	0102B058	\$81.00	\$121.00
DICTIONARY OF PAPER, FIFTH EDITION - CD	0102B058CD	\$81.00	\$121.00
<b>E</b>			
ECONOMICS OF THE PULP AND PAPER INDUSTRY, SECOND EDITION	0202FIN01-2	\$106.00	\$106.00
ELECTROCHEMICAL PROCESSING FOR THE PULP AND PAPER INDUSTRY	0101RECP	\$32.00	\$42.00
ENVIRONMENTAL MANAGEMENT AND CONTROL, SECOND EDITION	0202FIN19-2	\$137.00	\$137.00
<b>EXTRUSION COATING MANUAL, FIFTH EDITION - PRINT</b>	<b>0101R345</b>	<b>\$190.00</b>	<b>\$247.00</b>
<b>EXTRUSION COATING MANUAL, FIFTH EDITION - EBOOK</b>	<b>0101R345EL</b>	<b>\$143.00</b>	<b>\$185.00</b>
<b>EXTRUSION COATING MANUAL, FIFTH EDITION - PRINT AND EBOOK</b>	<b>0101R345BUN</b>	<b>\$283.00</b>	<b>\$367.00</b>
<b>F</b>			
<b>FILM EXTRUSION MANUAL, THIRD EDITION - PRINT</b>	<b>0101R360</b>	<b>\$190.00</b>	<b>\$247.00</b>
<b>FILM EXTRUSION MANUAL, THIRD EDITION - EBOOK</b>	<b>0101R360EL</b>	<b>\$143.00</b>	<b>\$185.00</b>
<b>FILM EXTRUSION MANUAL, THIRD EDITION - PRINT AND EBOOK</b>	<b>0101R360BUN</b>	<b>\$283.00</b>	<b>\$367.00</b>
FLEXOGRAPHIC TERMS: A GLOSSARY OF TERMS USED IN	0101R279	\$28.00	\$45.00
FLEXOGRAPHIC PRINTING ON CORRUGATED BOARD			
FOREST PRODUCTS CHEMISTRY	0202FIN03	\$106.00	\$106.00

**BOLD - BEST SELLER • RED - NEW PRODUCTS**



# REFERENCE SECTION

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
FOREST RESOURCES AND SUSTAINABLE MANAGEMENT, SECOND EDITION	0202FIN02-2	\$137.00	\$137.00
FUNCTIONAL ANALYSIS OF LIGNINS AND THEIR DERIVATIVES, THE	0101R194	\$58.00	\$84.00
FUNDAMENTALS OF ELECTROSPINNING AND ELECTROSPUN NANOFIBERS	17ELECTRONANO	\$125.00	\$139.00
FUNDAMENTALS OF FIBER SCIENCE	16FUNDFIBER	\$149.00	\$159.00
FUNDAMENTALS OF THE KRAFT RECOVERY PROCESS	0101R327	\$147.00	\$179.00
<b>G</b>			
GUIDELINES FOR SAFE ASSESSMENT & OPERATION OF YANKEE DRYERS - PRINT	0101R357	\$92.00	\$119.00
GUIDELINES FOR SAFE ASSESSMENT & OPERATION OF YANKEE DRYERS - EBOOK	0101R357EL	\$69.00	\$90.00
GUIDELINES FOR SAFE ASSESSMENT & OPERATION OF YANKEE DRYERS - PRINT AND EBOOK	0101R357BUN	\$137.00	\$177.00
GUIDELINES FOR THE BUYING AND SELLING OF USED CORRUGATED MACHINERY	0101R210	\$26.00	\$37.00
GUIDELINES FOR THE SAFE OPERATION OF STEAM HEATED PAPER MACHINERY	0101R250	\$40.00	\$58.00
<b>H</b>			
HANDBOOK FOR PULP & PAPER TECHNOLOGISTS, FOURTH EDITION	0202SMOOK4	\$103.00	\$133.00
HANDBOOK FOR PULP & PAPER TECHNOLOGISTS, FOURTH EDITION- SPANISH	0202SMOOK4S	\$103.00	\$133.00
HANDBOOK OF PULP & PAPER TERMINOLOGY: A GUIDE TO	0202TERM	\$75.00	\$85.00
INDUSTRIAL AND TECHNOLOGICAL USES, SECOND EDITION			
HANDBOOK FOR PULP & PAPER TECHNOLOGISTS AND TERMINOLOGY - ENGLISH - SET	0202SMSET4	\$140.00	\$175.00
HANDBOOK OF PAPER & PAPERBOARD PACKAGING TECHNOLOGY, SECOND EDITION	12HPPPT	\$180.00	\$200.00
HEAT SEALING TECHNOLOGY AND ENGINEERING FOR PACKAGING	10HEATSTE	\$145.00	\$175.00
<b>I</b>			
ILLUSTRATED GLOSSARY OF PACKAGING TERMINOLOGY, SECOND EDITION	16PACKTERM	\$109.00	\$120.00
<b>IMPACT, DEVELOPMENT, &amp; COMMERCIALIZATION OVERVIEW OF DEWATERING HYDROFOILS (PRINT)</b>	<b>0101R367</b>	<b>\$35.00</b>	<b>\$46.00</b>
IMPROVEMENT BASED ISO-9000 QUALITY SYSTEM IMPLEMENTATION PLANS FOR PACKAGING PLANTS	08ISOIP	\$60.00	\$66.00
INDUSTRIAL ENVIRONMENTAL CONTROL - PULP & PAPER INDUSTRY, THIRD EDITION	0101R296	\$67.00	\$100.00
INDUSTRIAL ENVIRONMENTAL CONTROL PULP & PAPER INDUSTRY, SECOND EDITION - SPANISH	0102B056S	\$94.00	\$140.00
INTEGRATED BIOREFINERIES - DESIGN, ANALYSIS AND OPTIMIZATION	12INTBIO	\$128.00	\$140.00
INTRODUCTION TO NANOCOMPOSITE MATERIALS, PROPERTIES, PROCESSING, CHARACTERIZATION	16INTNANO	\$89.00	\$99.00
<b>INTRODUCTION TO NONWOVENS</b>	<b>0101R271</b>	<b>\$30.00</b>	<b>\$45.00</b>
INTRODUCTION TO NONWOVENS TECHNOLOGY	12INT	\$149.00	\$169.00
<b>K</b>			
KNOCKING BOLTS	19KBOLTS	\$39.95	\$39.95
<b>KRAFT PULPING</b>	<b>0101R171</b>	<b>\$63.00</b>	<b>\$94.00</b>
<b>KRAFT PULPING CD (MAKING PULP &amp; PAPER SERIES)</b>	<b>MPP-04</b>	<b>\$59.00</b>	<b>\$89.00</b>
<b>KRAFT RECOVERY BOILERS, THIRD EDITION - PRINT</b>	<b>0101R358</b>	<b>\$188.00</b>	<b>\$244.00</b>
<b>L</b>			
LEAN SAFETY: TRANSFORMING YOUR SAFETY CULTURE WITH LEAN MANAGEMENT	12SAFE	\$37.00	\$42.00
LIGNIN & LIGNANS ADVANCES IN CHEMISTRY	11LIGNIN	\$158.00	\$170.00
<b>LIME KILNS AND RECAUSTICIZING; THE FORGOTTEN AREA OF A KRAFT MILL - PRINT</b>	<b>0101R362</b>	<b>\$157.00</b>	<b>\$204.00</b>
<b>LIME KILNS AND RECAUSTICIZING: THE FORGOTTEN AREA OF A KRAFT MILL - EBOOK</b>	<b>0101R362EL</b>	<b>\$118.00</b>	<b>\$153.00</b>
<b>LIME KILNS AND RECAUSTICIZING: THE FORGOTTEN AREA OF A KRAFT MILL - PRINT AND EBOOK</b>	<b>0101R362BUN</b>	<b>\$234.00</b>	<b>\$303.00</b>
<b>M</b>			
MAINTENANCE PAINTING OF STEEL STRUCTURES IN PULP AND PAPER - PRINT	0101R339	\$33.00	\$54.00
MAINTENANCE PAINTING OF STEEL STRUCTURES IN PULP AND PAPER - EBOOK	0101EMAIT	\$25.00	\$41.00

**BOLD - BEST SELLER • RED - NEW PRODUCTS**

# REFERENCE SECTION

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
MAINTENANCE PLANNING & SCHEDULING BOOK	10MPSB	\$109.00	\$130.00
<b>MAKE PAPER PRODUCTS STAND OUT: STRATEGIC USE OF WET END CHEMICAL ADDITIVES - PRINT</b>	<b>0101R361</b>	<b>\$95.00</b>	<b>\$124.00</b>
<b>MAKE PAPER PRODUCTS STAND OUT: STRATEGIC USE OF WET END CHEMICAL ADDITIVES - EBOOK</b>	<b>0101R361EL</b>	<b>\$71.00</b>	<b>\$93.00</b>
<b>MAKE PAPER PRODUCTS STAND OUT: STRATEGIC USE OF WET END CHEMICAL ADDITIVES - PRINT &amp; EBOOK</b>	<b>0101R361BUN</b>	<b>\$141.00</b>	<b>\$184.00</b>
MAKING PULP AND PAPER - CD SERIES (ALL 15)	MPP-SET	\$899.00	\$1,251.00
MASS TRANSPORT AND REACTIVE BARRIERS IN PACKAGING	15TRANSPKG	\$179.00	\$189.00
MATERIALS, CORROSION PREVENTION, AND MAINTENANCE	0202FIN15-2	\$106.00	\$106.00
MEASUREMENT AND CONTROL OF THE OPTICAL PROPERTIES OF PAPER	20MCOPP	\$80.00	\$95.00
MECHANICAL AND CHEMI-MECHANICAL PULPING - CD (MAKING PULP & PAPER SERIES)	MPP-06	\$59.00	\$89.00
<b>MECHANICAL PULPING, SECOND EDITION</b>	<b>0202FIN05-2</b>	<b>\$137.00</b>	<b>\$137.00</b>
MECHANICAL PULPS: FROM WOOD TO BLEACHED PULP	0101R278	\$104.00	\$154.00
MECHANICS OF PAPER PRODUCTS	13MOPP	\$89.00	\$99.00
<b>MECHANICS OF ROLLERS, THE</b>	<b>0101R255</b>	<b>\$81.00</b>	<b>\$121.00</b>
<b>MICRO AND NANOPARTICLES IN PAPERMAKING</b>	<b>0101R312</b>	<b>\$165.00</b>	<b>\$258.00</b>
MILL-WIDE PROCESS CONTROL AND INFORMATION SYSTEMS	0202MS10	\$38.00	\$54.00
MONOGRAPH ON MICROBIOLOGY OF PAPERMAKING SYSTEMS	0101R323	\$119.00	\$163.00
MORE THAN A BOX: BOX PLANT 101 - DVD	0101R338	\$75.00	\$96.00
MORE THAN A BOX: BOX PLANT 101 - ELECTRONIC	0101R334	\$30.00	\$40.00
<b>N</b>			
<b>NANOCELLULOSE CHALLENGES AND OPPORTUNITIES: END USER PERSPECTIVES - PRINT</b>	<b>0101R352</b>	<b>\$75.00</b>	<b>\$100.00</b>
<b>NANOCELLULOSE CHALLENGES AND OPPORTUNITIES: END USER PERSPECTIVES - EBOOK</b>	<b>0101R352EL</b>	<b>\$60.00</b>	<b>\$75.00</b>
<b>NANOCELLULOSE END USERS GUIDE AND PERSPECTIVES SET - PRINT</b>	<b>0101R352BUN</b>	<b>\$200.00</b>	<b>\$275.00</b>
<b>NANOCELLULOSE END USERS GUIDE AND PERSPECTIVES SET - EBOOKS</b>	<b>0101R352ELBUN</b>	<b>\$160.00</b>	<b>\$185.00</b>
<b>NANOCELLULOSE: PRODUCERS, PRODUCTS, AND APPLICATIONS A GUIDE - PRINT</b>	<b>0101R350</b>	<b>\$175.00</b>	<b>\$225.00</b>
<b>NANOCELLULOSE: PRODUCERS, PRODUCTS, AND APPLICATIONS - EBOOK</b>	<b>0101R350EL</b>	<b>\$150.00</b>	<b>\$170.00</b>
NANOCELLULOSE: FROM NATURE TO HIGH PERFORMANCE TAILORED MATERIALS	13NANOCELL	\$180.00	\$196.00
NANOTECHNOLOGY FOR THE FOREST PRODUCT INDUSTRY VISION & TECHNOLOGY ROAD MAP	0101R314	\$67.00	\$79.00
NANOTECHNOLOGY HEALTH AND ENVIRONMENTAL RISKS, SECOND EDITION	13NANOENV	\$45.00	\$55.00
NANOTECHNOLOGY: UNDERSTANDING SMALL SYSTEMS	11NANOSMALL	\$80.00	\$100.00
<b>NONWOVENS: THEORY, PROCESS, PERFORMANCE, AND TESTING</b>	<b>0101R199</b>	<b>\$93.00</b>	<b>\$138.00</b>
<b>O</b>			
<b>OVERVIEW PAPER AND WOOD - CD (MAKING PULP &amp; PAPER SERIES)</b>	<b>MPP-01</b>	<b>\$59.00</b>	<b>\$89.00</b>
<b>P</b>			
PACKAGING AND TRANSPORTATION FORENSICS: REDUCING RISKS AND LIABILITY	15TRANSFORENSIC	\$125.00	\$150.00
PACKAGING VALUE CHAIN, THE	11PVC	\$65.00	\$75.00
PAPER AND BOARD GRADES	0202FIN18	\$106.00	\$106.00
PAPER AND PAPERBOARD CONVERTING, SECOND EDITION	0202FIN12-2	\$137.00	\$137.00
PAPER COATING ADDITIVES	0102B060	\$66.00	\$98.00
PAPER COATING VISCOELASTICITY AND ITS SIGNIFICANCE IN BLADE COATING	0101R259	\$33.00	\$52.00
PAPER MACHINE CLOTHING, SECOND EDITION	17PMC2	\$195.00	\$215.00
PAPER MACHINE DRY END - CD (MAKING PULP & PAPER SERIES)	MPP-13	\$59.00	\$89.00
<b>PAPER MACHINE QUALITY CONTROL SYSTEMS - VOL.1: MEASUREMENT SYSTEMS AND PRODUCT VARIABILITY - PRINT</b>	<b>0101R328</b>	<b>\$146.00</b>	<b>\$221.00</b>
<b>PAPER MACHINE QUALITY CONTROL SYSTEMS VOL. 1: MEASUREMENT SYSTEMS AND PRODUCT VARIABILITY - EBOOK</b>	<b>0101QCSELECT</b>	<b>\$109.00</b>	<b>\$166.00</b>
<b>PAPER MACHINE QUALITY CONTROL SYSTEMS VOL. 1: MEASUREMENT SYSTEMS AND PRODUCT VARIABILITY - PRINT AND EBOOK</b>	<b>0101QCSBUND</b>	<b>\$217.00</b>	<b>\$329.00</b>
PAPER MACHINE STEAM AND CONDENSATE SYSTEMS, FIFTH EDITION	0101R096	\$33.00	\$54.00

**BOLD - BEST SELLER • RED - NEW PRODUCTS**



# REFERENCE SECTION

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
PAPER MACHINE WET END - CD (MAKING PULP & PAPER SERIES)	MPP-12	\$59.00	\$89.00
PAPER MACHINE WET PRESS MANUAL, FOURTH EDITION	0102B042	\$90.00	\$134.00
<b>PAPER MILL OVERVIEW - CD (MAKING PULP &amp; PAPER SERIES)</b>	<b>MPP-09</b>	<b>\$59.00</b>	<b>\$89.00</b>
PAPER PHYSICS, SECOND EDITION	0202FIN16-2	\$137.00	\$137.00
PAPER SCIENCE AND MANUFACTURE	0101RPSM	\$38.00	\$49.00
PAPER: AN ENGINEERED STOCHASTIC STRUCTURE	0101R238	\$62.00	\$92.00
<b>PAPERMAKING CHEMISTY, SECOND EDITION</b>	<b>0202FIN04-2</b>	<b>\$106.00</b>	<b>\$106.00</b>
<b>PAPERMAKING PART 1: STOCK PREPARATION &amp; WET END, SECOND EDITION</b>	<b>0202FIN08-2</b>	<b>\$170.00</b>	<b>\$170.00</b>
<b>PAPERMAKING PART 2: DRYING, SECOND EDITION</b>	<b>0202FIN09-2</b>	<b>\$170.00</b>	<b>\$170.00</b>
<b>PAPERMAKING PART 3: FINISHING, SECOND EDITION</b>	<b>0202FIN10-2</b>	<b>\$137.00</b>	<b>\$137.00</b>
PAPERMAKING SCIENCE AND TECHNOLOGY BOOK SERIES, SECOND EDITION	0202FINSET-2	\$2,525.00	\$2,525.00
PIGMENT COATING AND SURFACE SIZING OF PAPER, SECOND EDITION	0202FIN11-2	\$170.00	\$170.00
<b>PIGMENTS FOR PAPER AND PAPERBOARD - PRINT</b>	<b>0101R366</b>	<b>\$135.00</b>	<b>\$176.00</b>
<b>PIGMENTS FOR PAPER AND PAPERBOARD - EBOOK</b>	<b>0101R366EL</b>	<b>\$101.00</b>	<b>\$132.00</b>
<b>PIGMENTS FOR PAPER AND PAPERBOARD - PRINT AND EBOOK</b>	<b>0101R266BUN</b>	<b>\$201.00</b>	<b>\$262.00</b>
PITCH CONTROL, WOOD RESIN AND DERESINATION	0102B067	\$109.00	\$165.00
POLYMER NANOCOMPOSITES HANDBOOK	11POLYNANO	\$116.00	\$145.00
PREVENTIVE MAINTENANCE, ESSENTIAL CARE AND CMS BOOK	10PMEC	\$135.00	\$155.00
PRINCIPLES OF NANOPHOTONICS	11NANOPHOTO	\$69.00	\$86.00
<b>PRINCIPLES OF WET END CHEMISTRY</b>	<b>0101R241</b>	<b>\$54.00</b>	<b>\$76.00</b>
PRINT MEDIA: PRINCIPLES, PROCESSES AND QUALITY, SECOND EDITION	0202FIN13-2	\$137.00	\$137.00
<b>PROCESS CHEMICALS FOR PAPERMAKING - PRINT</b>	<b>0101R364</b>	<b>\$129.00</b>	<b>\$168.00</b>
<b>PROCESS CHEMICALS FOR PAPERMAKING - EBOOK</b>	<b>0101R364EL</b>	<b>\$97.00</b>	<b>\$126.00</b>
<b>PROCESS CHEMICALS FOR PAPERMAKING - PRINT AND EBOOK</b>	<b>0101R364BUN</b>	<b>\$192.00</b>	<b>\$250.00</b>
PROCESS AND MAINTENANCE MANAGEMENT, SECOND EDITION	0202FIN14-2	\$137.00	\$137.00
PROCESS CONTROL FUNDAMENTALS FOR THE PULP AND PAPER INDUSTRY	0101R249	\$103.00	\$154.00
PROCESS SYNTHESIS FOR FUEL ETHANOL PRODUCTION	09PROSYN	\$80.00	\$104.00
PRODUCTION AND APPLICATIONS OF CELLULOSE NANOMATERIALS	0101R332	\$75.00	\$99.00
PRODUCTIVITY IMPROVEMENTS IN ROTARY DIE CUT STACKERS	0101R257	\$21.00	\$31.00
<b>PROPERTIES OF PAPER: AN INTRODUCTION, SECOND EDITION</b>	<b>0102B052</b>	<b>\$44.00</b>	<b>\$67.00</b>
PROTECTIVE PACKAGING FOR DISTRIBUTION, DESIGN AND DEVELOPMENT	16PROTECTPAK	\$140.00	\$160.00
<b>PULP &amp; PAPER TECHNOLOGY ADVANCED WORKFORCE TRAINING VOL 1-PULP MANUFACTURING, THE</b>	<b>0101R317</b>	<b>\$54.00</b>	<b>\$65.00</b>
<b>PULP &amp; PAPER TECHNOLOGY ADVANCED WORKFORCE TRAINING VOL2-PAPER MANUFACTURING, THE</b>	<b>0101R320</b>	<b>\$54.00</b>	<b>\$65.00</b>
<b>PULP AND PAPER TECHNOLOGY ADVANCED WORKFORCE TRAINING, THE, SET</b>	<b>0101R317SET</b>	<b>\$97.00</b>	<b>\$119.00</b>
PULP AND PAPER TESTING	0202FIN17	\$106.00	\$106.00
<b>PULP MILL OVERVIEW &amp; PROTECTING THE ENVIRONMENT - CD (MAKING PULP &amp; PAPER SERIES)</b>	<b>MPP-02</b>	<b>\$59.00</b>	<b>\$89.00</b>
<b>R</b>			
RECENT ADVANCES IN PAPER RECYCLING - STICKIES	08RAPRS	\$80.00	\$95.00
RECYCLED FIBRE AND DEINKING, SECOND EDITION	0202FIN07-2	\$170.00	\$170.00
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SAFETY IS EASY AS PI	13SAFEPI	\$35.00	\$39.00
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<b>WEB HANDLING HANDBOOK, THE</b>	<b>20WEBHAN</b>	<b>\$239.00</b>	<b>\$239.00</b>
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CORRUGATED CONTAINERS WASTE MANAGEMENT: DVD 1 - SPANISH VERSION	CCWASTESP-DVD1	\$495.00	\$695.00
CORRUGATED CONTAINERS WASTE MANAGEMENT: DVD 2 - SPANISH VERSION	CCWASTESP-DVD2	\$495.00	\$695.00
CORRUGATED CONTAINERS WASTE MANAGEMENT: DVD 3 - SPANISH VERSION	CCWASTESP-DVD3	\$495.00	\$695.00
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<b>CALCULATION SPREADSHEET T545 &amp; TIP 1101</b>	<b>T545 TIP1101CS</b>	<b>\$27.00</b>	<b>\$38.00</b>
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<b>POSTER</b>			
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<b>IDCON PUBLICATIONS</b>			
KNOCKING BOLTS	19KBOLTS	\$39.95	\$39.95
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INDUSTRY APPRECIATION PROGRAM - CONTACT PRESS@TAPPI.ORG	\$100.00	\$100.00	
<b>ENGINEERING PLATFORM</b>			
KNOVEL (TEXT BASED SEARCH AND INTERACTIVE EQUATION TOOL)	HTTPS://APP.KNOVEL.COM/KN		

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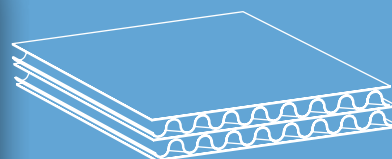
## PAPERMAKING

- Brightness of pulp, paper, and paperboard (directional reflectance at 457 nm) - **T 452**
- Training standard for paper machine tender - **T 1501**
- Cross-machine grammage profile measurement (gravimetric method) - **T 545**
- Standard conditioning and testing atmospheres for paper, board, pulp handsheets and related products - **T 402**
- Grammage of paper and paperboard (weight per unit area) - **T 410**
- Papermaker's formulas - **TIP 0502-17**



## PULP MILL

- Kappa number of pulp - **T 236**
- Moisture in pulp, paper and paperboard - **T 412**
- Brightness of pulp, paper and paperboard (directional reflectance) - **T 452**
- Analysis of soda and sulfate white and green liquors - **T 624**
- Laboratory beating of pulp (PFI Method) - **T 248**
- Sampling and preparing wood for analysis - **T 257**
- Basic density and moisture content of pulpwood - **T 258**



## BOARD FABRICATION

- Statistical process control pin adhesion - **TIP 0304-23**
- Statistical process control of starch gelatinization temperature - **TIP 0304-14**
- Understanding wet strength: what are MRA, WRA, and WPA? - **TIP 0304-69**
- Checking the parallel of corrugating rolls with "NCR" paper - **TIP 0304-62**
- Statistical process control of starch viscosity - **TIP 0304-15**
- Cross direction warp in corrugated board - **TIP 0304-07**

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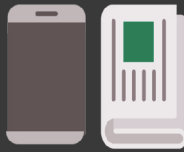


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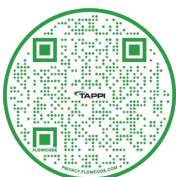


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