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A Word from TAPPI President Larry N. Montague



For TAPPI, 2017 proved again that knowledge-sharing fuels our industry's progress. This philosophy has driven our association's growth for more than a century.

As I look back at what our members, staff, and volunteer leaders have accomplished together this past year, I'm truly amazed. At every step, listening to member needs has been our key strategy—and sharing industry knowledge has been a key outcome.

In 2017, we launched our first-ever standalone tissue event, in conjunction with RISI, an industry-leading provider of industry information. The event was so successful that Tissue 2018 has already been scheduled for October, 2018. The event will be held in Appleton, WI—the heart of tissue country.

Last June, more than 300 industry professionals gathered in Montreal for the largest International Conference on Nanotechnology for Renewable Materials ever. As part of the expanded program, the **TAPPI Nanotechnology Division** hosted its first end-user panel, which brought together cellulose nanomaterial (CNM) producers and end users. This was a significant milestone towards the wide-scale commercial adoption of CNMs.

Our other **TAPPI Divisions** have also been busy. We've re-branded the former PLACE Division as the International Flexible Packaging and Extrusion Division; it will now encompass members from all areas of the flexible packaging industry. Our YP Division launched a newsletter developed by young professionals, for young professionals, and is sponsoring a community service project at PaperCon in April. Our new Women in Industry Division expands on the group's success, and has developed a Women's Summit to be co-located with PaperCon. Each change reflects TAPPI's commitment to building leaders while responding to industry growth and member interests.

TAPPI continues to support our industry on safety issues. **TAPPISAFE** met its goals for growth by adding more pulp facilities and branching into converting facilities, as well as with Contractor Employee Orientations. To bring useful safety information directly to members and readers, we're adding a new Safety First column to each issue of *Paper360°*, TAPPI's member magazine.

We have got another new content section in *Paper360°*: **Reliability & Maintenance**, created in partnership with IDCON, a premier provider of R&M information to the pulp and paper industry. We'll be expanding the availability of useful reliability and maintenance knowledge through a variety of channels including online, in print, and at events.

In 2017, TAPPI expanded its learning opportunities in several key areas. **TAPPI Academy** includes new courses in

every format—eLearning (where we've added the Tissue 201: Operations and Runnability courses); Face-to-Face; and Company Classroom. At **TAPPI PRESS**, look for two brand-new publications slated for 2018: *Advances in Papermaking Wet End Chemistry Application Technologies*, and *Black Liquor Evaporation*.

To keep up with the standards of excellence required for the forest products industries, in 2017 TAPPI launched a **Professional Certificate Program**. Developed by industry practitioners who understand the technical knowledge and experience required for superior performance, this program provides a means for professionals to validate their ability to expertly manage industry demands.

TAPPI Connect continues to grow. In 2017, we introduced our **TAPPI Connect Mentor Match** program, which partners experienced professionals (mentors) with students and young professionals (protégés) to share resources and experiences, and work together to achieve professional and personal goals. The feedback has been very positive, and I'm proud TAPPI can facilitate a type of program often not available through the workplace.

The truth is, TAPPI members—their knowledge, experience, talent, and drive—provide a tremendous resource for our industry. Nowhere is this more true than among the men and women who have been named **TAPPI Fellows**. 2018 marks the 50th Anniversary of this elite group; I hope you'll join us at PaperCon 2018 for the anniversary celebration.

This past year, TAPPI expanded its **global presence** to 85 countries, with more than 8,800 total members. TAPPI is excited to expand its management service and will be managing the International Forest Products Transport Association (IFPTA) starting January 1, 2018.

Finally, I am so excited to report that, in 2017, TAPPI added **2,885** new members—the highest FY new member count in almost 20 years. If you're one of those new members, welcome. I firmly believe you've made a career-building decision to join us, and I hope you'll take full advantage of all that our association offers. If you're a returning member, welcome back! May 2018 bring you even more opportunities to meet your industry peers and colleagues, and to grow your professional knowledge, through TAPPI.

Thanks to all our members and supporters who helped make 2017 such a success. I can't wait to see what we do together in the coming year!

Sincerely,

A handwritten signature in green ink that reads "Larry N. Montague". The signature is fluid and cursive, with a large initial 'L'.

Larry N. Montague
TAPPI President & CEO

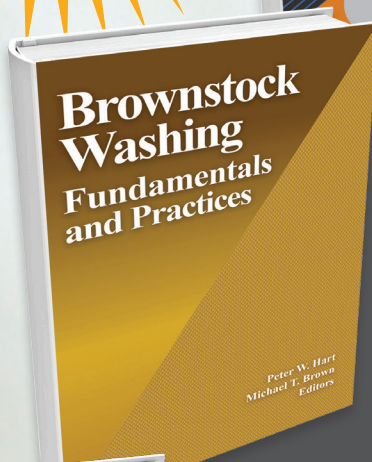


NEW FROM
TAPPI
PRESS



Global Editor: Warren Durling

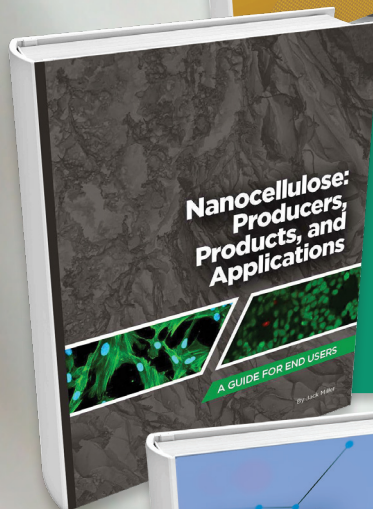
- Updated and revised with more than 28 additional sections, containing: Lamination Equipment, Process Variables, Structures, and Troubleshooting
- Highlights in technology modernization, such as increased productivity, reduced waste, and more product options



Editor: Peter W. Hart & Michael T. Brown

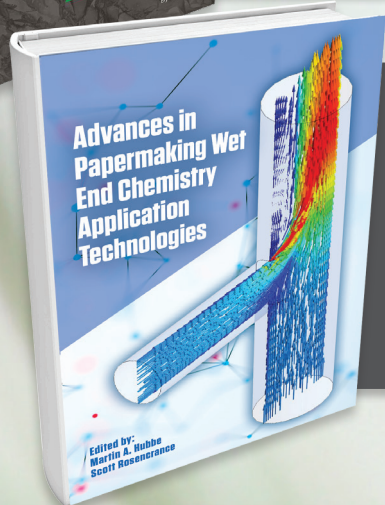
A review of current state-of-the-art methods for designing and operating brownstock washing systems, including:

- Washer control strategy
- Instrumentation
- Process Control



By: Jack Miller

- Status of commercial development
- Overview of issues relating to environment, health, and safety
- Cellulose nanomaterial potential by application
- Profiles of more than 50 producers



Editor: Martin A. Hubbe & Scott Rosencrance

- Control and optimization of retention
- Drainage strategies and micro- and nanoparticle additives for dewatering
- Microbial control strategies

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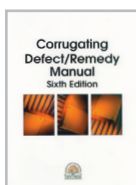
CORRUGATED



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: \$75 • List: \$115

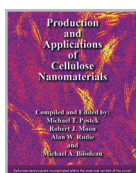


Corrugating Defect / Remedy Manual, Sixth Edition

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

Print - Item code: 0101R153 • Member: \$100 • List: \$149
CD - Item code: 0101R153CD • Member: \$87 • List: \$130

NANOTECHNOLOGY

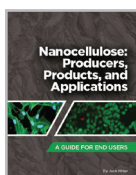


Production and Applications of Cellulose Nanomaterials

The discovery of the properties and performance of cellulosic nanomaterials has accelerated, yet most scientists and government bodies are unaware of their existence. This best seller is intended to bring together current leading-edge knowledge on cellulosic nanomaterials from worldwide expert sources. The scope and breadth of the information outlined in this book span the range of cellulosic nanomaterials research, process and product development, and commercial exploitation and include standards development and environmental, health, and safety issues.

REDUCED PRICING!

Item code: 0101R332 • Member: \$172 • List: \$199



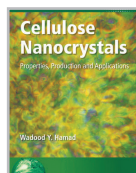
NEW! *Nanocellulose Producers, Products, and Applications: A Guide for End Users*

In order to successfully utilize cellulose nanomaterials in commercial applications, end users will need to understand the variety of available materials and the differences among them. Market-Intell developed this report specifically for end users to explain these differences, to detail the offerings of the various suppliers, and to review the state of the industry and the challenges on the road to commercialization. This report covers cellulose nanocrystals (CNC) and cellulose nanofibrils (CNF), as well as microfibrillated cellulose (MFC), and cellulose filaments (CF).

Overviews of the various cellulose nanomaterials are presented, with extensive references. This report is the product of extensive primary and secondary research, including more than 60 interviews by phone and email, as well as discussions with researchers and producers.

Print - Item code: 0101R350 • Member: \$249 • List: \$325

Ebook - Item code: 0101R350EL • Member: \$249 • List: \$325

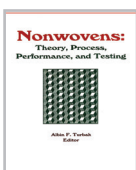


NEW! *Cellulose Nanocrystals: Properties, Production and Applications (Hardcover)*

An in-depth overview of the materials science, chemistry and physics of cellulose nanocrystals, and the technical development of advanced materials based on cellulose nanocrystals for industrial and medical applications. This book will appeal to audiences in the physical, chemical and biological sciences as well as engineering disciplines. It will be of critical interest to industrialists seeking to develop sustainable new materials for the advanced industrial economies of the 21st century, ranging from adaptive “smart” packaging materials, to new chiral, mesoporous materials for optoelectronics and photonics, to high-performance nanocomposites for structural applications.

Item code: 17CELLNANO • Member: \$135 • List: \$162

NONWOVENS



Nonwovens: Theory, Process, Performance, and Testing

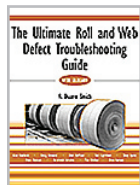
Written by experts in the field of nonwovens development, engineering, and manufacture, this book can be used by industry and academia alike. As each chapter progresses from basics to advanced concepts, readers with any level of will derive value from this book. Contents include: overview of nonwovens; 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: \$86 • List: \$128

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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: \$240

Ebook - Item code: 0101RWELECT • Member: \$159 • List: \$240

Purchase the Set

Item code: 0101RWELECTBUN • Member: \$239 • List: \$299



NEW!

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.

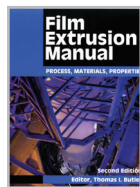
New features include:

- 28 additional sections, containing: Lamination Equipment, Process Variables, Structures, and Troubleshooting
- 23 new, renowned contributors and authors
- Highlights in technology modernization, such as increased productivity, reduced waste, and more product options.
- Full-color photos and illustrations

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

Ebook - Item code: 0101R345EL • Member: \$190 • List: \$247

Bundle - Item code: 0101R345BUN • Member: \$285 • List: \$321

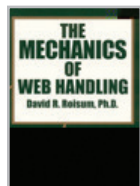


Film Extrusion Manual, Second Edition

This book can be used as a stand-alone training resource for all levels of professional and operations personnel working in the plastics film industry including: plastic film manufacturing, converting, equipment suppliers, and polymer suppliers. It

focuses on the technology and science of polymer film extrusion and can be used to learn the basics of applied extrusion theory, as well as provide troubleshooting guidelines and solutions to many common problems encountered in the fabrication of thermoplastic films.

Item code: 0101R313 • Member: \$157 • List: \$205

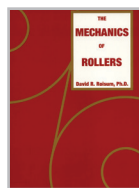


The Mechanics of Web Handling

Applicable to any web including paper, film, foil, nonwovens, and textiles, this unique book covers many aspects of web handling for manufacturing, converting, and printing. Designed for product, process, and maintenance engineers responsible

for web machinery, readers will understand better how to design and operate machinery to avoid wrinkles, web breaks, registration, guiding, and other types of costly web problems.

Item code: 0101R273 • Member: \$86 • List: \$112



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: \$75 • List: \$112

PULP / WOOD PRODUCTS / PAPERMAKING / ENGINEERING



The Handbook of 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: \$95 • List: \$123



NEW!

Advances in Papermaking Wet End Chemistry Application Technologies

This book describes the most important advances in papermaking wet-end chemistry applications technologies in past decades. It 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. Chapters include: Control and optimization of retention, Drainage strategies and micro- or nanoparticle systems, Microbial control strategies, Optimization of dry strength additives and Enzymatic technology for wet-end implementation.

Print - Item code: 0101R349 • Member: \$119 • List: \$155

Ebook - Item code: 0101R349EL • Member: \$119 • List: \$155

Bundle - Item code: 0101R349BUN • Member: \$179 • List: \$233



NEW!

Brownstock Washing Fundamentals and Practices

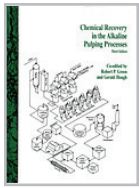
A technical publication from 21 contributing experts that provides knowledge for pulp mill employees at any level. In addition to the pulp manufacturing workforce, the editors

highly recommend this publication 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. The 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.

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

Ebook - Item code: 0101R348EL • Member: \$185 • List: \$241

Item code: 0101R348BUN • Member: \$278 • List: \$313



Chemical Recovery in the Alkaline Pulping Processes, Revised Edition

An introduction to the Principles of Chemical Recovery, Evaporation and Concentration of Black Liquor, Noncondensable Gases, Tall Oil Soap Recovery, Chemical Recovery and Process Chemistry, Chemical Recovery Equipment, Cooking Liquor Preparation, and Lime Reburning: The Rotary Lime Kiln and much more.

Item code: 0102B046 • Member: \$86 • List: \$115



The Bleaching of Pulp

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.

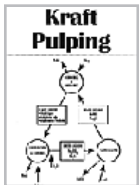
Item code: 0101R331 • Member: \$175 • List: \$232



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.

Item code: 0101R327 • Member: \$195 • List: \$237



Kraft Pulping

Liberally illustrated with over 130 diagrams and photographs, this book includes basic formulas and diagrams to explain the structure of wood, variables affecting the quality and handling of wood chips, pulping chemistry and equipment, the pulping process, and black liquor recovery. Includes a glossary of frequently used terms.

Item code: 0101R171 • Member: \$58 • List: \$87



Paper Machine Clothing, Second Edition

Paper Machine Clothing gives an introduction to pulp and papermaking technology and then covers the main processes of forming, pressing, and drying in detail. Design, manufacturing, testing, application, and service of paper machine fabrics for each machine section are explained in detail. Paper Machine Clothing is a reference resource providing information about key papermaking topics as well as some of the latest technology available in paper machine clothing. Practical guides for troubleshooting and properly applying machine fabrics are included throughout the book. New features in the Second Edition include: International units, a chapter on Lean Manufacturing & Six Sigma, Papermaking tips for forming, pressing, and drying, and a chapter on paper machine auditing.

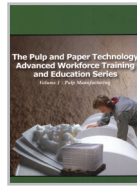
Item code: 17PMC2 • Member: \$195 • List: \$215



Starch and Starch Products in Surface Sizing and Paper Coating

A comprehensive overview of the various aspects of starch use in surface sizing and coating, this book serves as a learning aid. 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.

Item code: 0101R336 • Member: \$159 • List: \$199



The Pulp and Paper Technology Advanced Workforce Training and Education Series, Volume 1: Pulp Manufacturing

Tackle the “how” and “why” of pulp making. Topics include wood fiber fundamentals, overviews of the pulp mill, wood prep, kraft pulping, mechanical pulping, chemical recovery, bleaching and more!

Item code: 0101R317 • Member: \$50 • List: \$60



The Pulp and Paper Technology Advanced Workforce Training and Education Series, Volume 2: Paper Manufacturing

An overview of the paper mill as well as the entire papermaking process from stock preparation to pressing and drying. Topics include: wet end chemistry, paper machine wet end, size press operation, and coating operation.

Item code: 0101R3120 • Member: \$50 • List: \$60

Purchase the Set

Item code: 0101R317SET • Member: \$90 • List: \$125

The *Pulp and Paper Technology* book series is a new industry resource for improving the knowledge base of new and incumbent hourly workers. A resource developed jointly with TAPPI and the community college network (npt)2 .

TISSUE



Towel and Tissue Papermaking CD

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.

Item code: MPP-15 • Member: \$78 • List: \$119



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: \$175 • List: \$229

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TISSUE

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



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Printing methods for coated grades of paper and board, 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, designed for more experienced operators. Topics concentrated on wet end operations and pressing and dry end operations.

56 Learning Modules

Item Code: ELN-009 • Member: \$950 • List: \$1,235

► 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

► Wet End Chemistry

Papermaking materials, including 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

COURSE FORMAT: Concise narrated animation of components and processes.

► Broke Systems

This course includes: broke cleaning and screening, broke repulpers, broke system inventory management and under-machine repulpers.

5 Learning Modules

Item Code: ELC-011 • Member: \$221 • List: \$287

► 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: calendering, carrier copes, QCS Scanners, paper coating, reel systems, tail threading and web guiding and spreading.

11 Learning Modules

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► 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 to view course descriptions and previews.

Online Training available for Individual Users as well as Company Licenses. Choose to purchase a complete course or a specific topical course module. For more information contact training@tappi.org.



PULP MANUFACTURING ONLINE COURSES

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



► Chemical Recovery

Includes chemical recovery operations, terminology, equipment and process variables. *12 Learning Modules*
Item Code: ELN-004 • Member: \$475 • 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: \$475 • List: \$618

► Pulp Manufacturing Technology

Overview of pulping, pulp processing and bleaching technology, process variables and equipment. *26 Learning Modules*
Item Code: ELN-003 • Member: \$950 • List: \$1,235

► 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

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

Pulping and papermaking involves many industrial processes that require the safe handling of chemicals, gases, and water. 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

► Recaust

This course includes: dregs washing, electrostatic precipitators, exhaust gas scrubbers, green liquor clarifiers, lime kilns, lime mud filtering, slaking and causticizing and more. *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

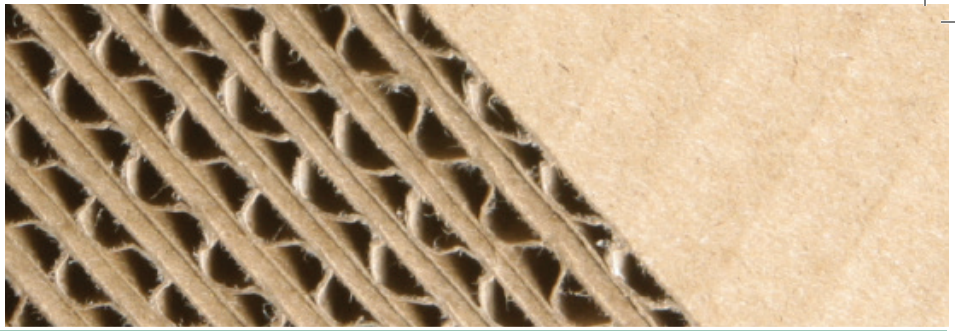
► Supplemental and Recycled Fiber

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 to view course descriptions and previews.

Online Training available for Individual Users as well as Company Licenses. Choose to purchase a complete course or a specific topical course module. For more information contact training@tappi.org.





CORRUGATED PACKAGING ONLINE COURSES

COURSE FORMAT: Concise narrated animation of components and processes.

Corrugated Packaging Box Plant Basics

Fundamental corrugated packaging and box training including corrugated material manufacturing and converting processes. This fundamental course includes both equipment and process descriptions as well as performance testing and plant safety. **10 Learning Modules**
Item Code: ELC-CORRC • Member: \$440 • List: \$572

► Board Tests

This course describes tests used to predict the stacking performance of corrugated board boxes, performance of corrugated boxes during handling and tests used to monitor corrugating and converting operations at box plants.

Single Module

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

► Box Plant Equipment Basics

This course introduces some common box plant equipment and processes, and discusses equipment layout, material flows, and storage considerations in box plants.

Single Module

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 corrugated box usage considerations.

Single Module

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

► Corrugating Adhesives

The objective of this course is to impart an understanding of a brief history of corrugating adhesives, then describes the purpose or function of the ingredients in modern, starch-based corrugating adhesives.

Single Module

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

► Corrugators

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

Single Module

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

► Die Cutters

This course 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.

Single Module

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

► Flexo Folder-Gluers

This course 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.

Single Module

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

► Other Box Plant Equipment

This course describes the design and operation of box plant equipment, including printer-slotter, folder-gluers, stitchers, tapers, laminators, presses, litho-laminators, bundlers and palletizers.

Single Module

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

► Raw Materials

This course 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.

Single Module

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

► Safety

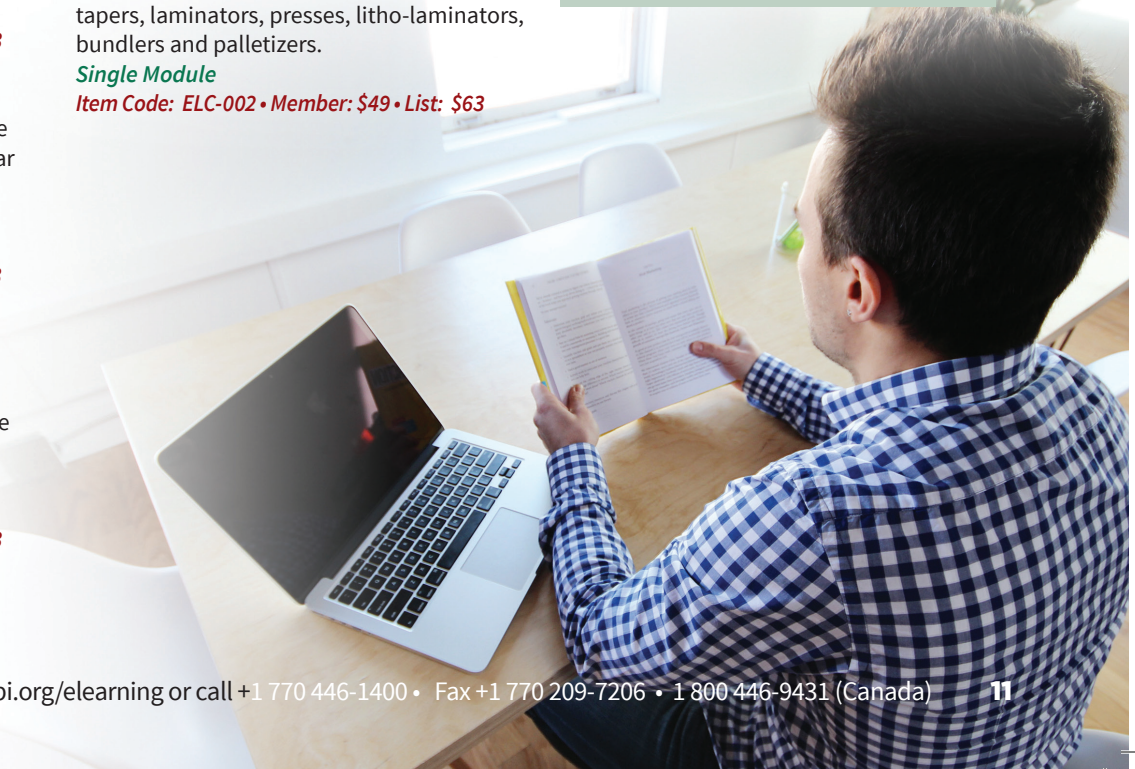
This course will discuss safe work behaviors, equipment safety hazards, stored energy hazards, chemical hazards, emergency stops, as well as vehicle and pedestrian hazards within box plants.

Single Module

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

Visit tappi.org/elearning to view course descriptions and previews.

Online Training available for Individual Users as well as Company Licenses. Choose to purchase a complete course or a specific topical course module. For more information contact training@tappi.org.





TISSUE MANUFACTURING ONLINE COURSES

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



► Tissue Manufacturing Technology

Course includes: tissue properties, chemicals and machine technology: headboxes, forming, drying, molding, creping, calendering and converting. **26 Learning Modules**

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



► TAPPI Tissue 101: Processes & Properties

Introductory course designed to increase understanding of tissue performance properties and manufacturing. Includes comprehensive overview of the manufacturing process and effect on product performance properties. **14 Learning Modules**

Professional Certificate available.

Course Item Code: ELT-T101 • Member: \$750 • List: \$975

Course w/Certificate: ELT-101CERTPP • Members: \$900 • List: \$1,170

► TAPPI Tissue 201: Operations & Runnability

Intermediate-to-advanced level course designed to improve tissue quality and consistency including understanding of what contributes to waste and downtime. Course includes: reliability, maintenance best practices and how to troubleshoot problems quickly. **13 Learning Modules**

Course Item Code: ELT-T201 • Member: \$750 • List: \$975

Course w/Certificate: ELT-T201CERTOR • Member \$900 • List: \$1,170

► Tissue Manufacturing Operations and Runnability Professional Certificate

TAPPI Professional Certificates are developed by industry practitioners, TAPPI Members who understand the knowledge and experience that is expected for superior performance in the global forest products, pulp, paper, tissue, packaging, and associated industries.

Completion of this Professional Certificate will demonstrate competency in critical tissue manufacturing knowledge, skills and abilities including: Improving overall tissue machine efficiency; Increasing production; and enhancing product softness and bulk. TAPPI certificate programs:

- Assure employers and clients of subject mastery
- Follow a vigorous peer-review process, ensuring the highest quality results.

Item Code: ELT-CERTOR • \$250

Review full product descriptions, tables of content and previews at www.tappi.org/elearning.

Online Training available for Individual Users as well as Company Licenses. Purchase a complete course or a specific learning module. For more information contact training@tappi.org,



PAPER MACHINE TRAINING PACKAGE

TRAINING PACKAGE INCLUDES THE FOLLOWING PREMIERE COURSES BY MATRA ENGINEERING: Approach Flow, The Headbox, Dewatering, Press Section, Dryers & Hood and Wet End Chemicals



INTERACTIVE COURSE FORMAT:

User driven animations and narration including process simulation. Operators Training Package available to Companies on an annual site license basis.

Contact training@tappi.org for more information.

REFERENCE SECTION

For complete descriptions visit www.tappi.org/bookstore.

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
A			
ACOUSTIC EMISSION NONDESTRUCTIVE EVALUATION OF YANKEE DRYERS	0101R208	\$73.00	\$109.00
ADHESION SCIENCE: PRINCIPLES AND PRACTICE (NEW)	18ASPP	\$133.00	\$174.00
ADVANCES IN LIGNOCELLULOSICS CHARACTERIZATION	0101R280	\$118.00	\$177.00
ADVANCES IN PAPERMAKING WET END CHEMISTRY APPLICATION TECHNOLOGIES - PRINT (NEW)	0101R349	\$119.00	\$155.00
ADVANCES IN PAPERMAKING WET END CHEMISTRY APPLICATION TECHNOLOGIES (ELECTRONIC DOCUMENT) (NEW)	0101R349EL	\$119.00	\$155.00
ADVANCES IN PAPERMAKING WET END CHEMISTRY APPLICATION TECHNOLOGIES (PRINT & ELECTRONIC DOCUMENT) (NEW)	0101R349BUN	\$179.00	\$233.00
ANILOX ROLL-HEART OF THE FLEXO PROCESS, SECOND EDITION, THE	0101R322	\$110.00	\$135.00
ANTHRAQUINONE PULPING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS	0101R269	\$93.00	\$140.00
APPLIED NANOTECHNOLOGY: THE CONVERSION OF RESEARCH RESULTS TO PRODUCTS, SECOND EDITION	11APNAN-2	\$150.00	\$160.00
B			
BINDER MIGRATION IN PAPER AND PAPERBOARD COATINGS	0101R203	\$50.00	\$75.00
BINDERS & ADDITIVES ANTHOLOGY CD	0101R340	\$75.00	\$100.00
BIOCATALYSIS AND BIOENERGY	11BIOCAT	\$140.00	\$150.00
BIOMASS AND ALTERNATE FUEL SYSTEMS: AN ENGINEERING AND ECONOMIC GUIDE	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	\$118.00	\$118.00
BLEACHING OF PULP, FIFTH EDITION, THE	0101R331	\$175.00	\$232.00
BOILER WATER TREATMENT PRINCIPLES AND PRACTICE, VOLUME 1: BOILER BASICS AND STEAM WATER CHEMISTRY	16BOILER1	\$125.00	\$135.00
BOILER WATER TREATMENT PRINCIPLES AND PRACTICE, VOLUME 2, TREATMENTS, PROGRAM DESIGN, & MANAGEMENT	16BOILER2	\$125.00	\$135.00
BOILER WATER TREATMENT PRINCIPLES AND PRACTICE: CHARTS AND NOTES FOR FIELD USE	16BOILER3	\$65.00	\$75.00
BROWNSTOCK WASHING: FUNDAMENTALS AND PRACTICES -PRINT (NEW)	0101R348	\$185.00	\$241.00
BROWNSTOCK WASHING FUNDAMENTALS AND PRACTICES (ELECTRONIC DOCUMENT) (NEW)	0101R348EL	\$185.00	\$241.00
BROWNSTOCK WASHING: FUNDAMENTALS AND PRACTICES (PRINT AND ELECTRONIC DOCUMENT) (NEW)	0101R348BUN	\$278.00	\$313.00
BUILDING A KNOWLEDGE-DRIVEN ORGANIZATION	08BUCKMAN	\$24.00	\$35.00
C			
CARTONS, CRATES AND CORRUGATED BOARD: HANDBOOK OF PAPER AND WOOD PACKAGING TECHNOLOGY	08HPWPT	\$140.00	\$150.00
CELEBRATING A CENTURY OF ACHIEVEMENT - TAPPI 100 YEAR BOOK	0101R342	\$49.00	\$59.00
CELLULOSIC NANOCRYSTALS: PROPERTIES, PRODUCTION AND APPLICATIIONS	17CELLNANO	\$135.00	\$162.00
CHEMICAL ANALYSIS OF INDUSTRIAL WATER	16CAIW	\$110.00	\$120.00
CHEMICAL ENGINEERING OF POLYMERS: PRODUCTION OF FUNCTIONAL AND FLEXIBLE MATERIALS (NEW)	18CEP	\$159.00	\$207.00
CHEMICAL PULPING PART 1, FIBRE CHEMISTRY AND TECHNOLOGY, SECOND EDITION	0202FIN06-2B	\$148.00	\$148.00
CHEMICAL PULPING PART 2, RECOVERY OF CHEMICALS AND ENERGY, SECOND EDITION	0202FIN06-2C	\$118.00	\$118.00
CHEMICAL PROCESS SAFETY: FUNDAMENTALS WITH APPLICATIONS (3RD EDITION)	13CHEMSAFE	\$145.00	\$151.00
CHEMICAL PROCESSING AIDS IN PAPERMAKING: A PRACTICAL GUIDE	0101R192	\$80.00	\$119.00
CHEMICAL RECOVERY IN THE ALKALINE PULPING PROCESSES REVISED EDITION	0102B046	\$86.00	\$115.00
CHEMICAL TREATMENT OF BOILER WATER, THE	16CTBW	\$65.00	\$75.00
CHEMICAL TREATMENT OF COOLING WATER, SECOND EDITION, THE	16CTCW	\$110.00	\$120.00
CHEMISTRY OF MODERN PAPERMAKING	11CHEM	\$159.00	\$179.00
COATING PROCESSES, THE	0102B057	\$103.00	\$155.00
COLLOID CHEMISTRY OF PAPERMAKING MATERIALS	0101R306	\$62.00	\$93.00
CONCRETE HANDBOOK: PRACTICAL GUIDE FOR PROTECTING AND IMPROVING THE DURABILITY OF CONCRETE IN PULP AND PAPER MILLS	0101R289	\$28.00	\$38.00
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
CONSUMER GUIDE TO DIFFERENTIAL PRESSURE FLOW TRANSMITTERS, THE	08DPFT	\$250.00	\$275.00
CONSUMER GUIDE TO VORTEX SHEDDING AND FLUIDIC FLOWMETERS, THE	08CGVSFF	\$300.00	\$330.00
CONSUMER GUIDE TO ULTRASONIC AND CORRELATION FLOWMETERS, THE	08UCF	\$250.00	\$275.00
COOLING WATER TREATMENT: PRINCIPLES AND PRACTICE	16COOL1	\$215.00	\$225.00
COOLING WATER TREATMENT PRINCIPLES AND PRACTICES: CHARTS AND NOTES FOR FIELD USE	16COOL2	\$35.00	\$45.00
CORROSION OF PLASTICS AND RUBBER IN PROCESS EQUIPMENT - EXPERIENCES FROM THE PULP AND PAPER INDUSTRY	0101R206	\$75.00	\$112.00
CORRUGATED ADHESIVES PREPARATION, FIFTH EDITION	0101R301	\$100.00	\$150.00
CORRUGATED CONTAINER PLANT HANDBOOK	0101R258	\$83.00	\$124.00
CORRUGATED CONTAINERS MANUFACTURING PROCESS, THE	0101R281	\$75.00	\$115.00
CORRUGATED CROSSROADS: A REFERENCE GUIDE FOR THE CORRUGATED CONTAINERS INDUSTRY	0101R254	\$82.00	\$121.00
CORRUGATING DEFECT / REMEDY MANUAL, SIXTH EDITION - PRINT	0101R153	\$100.00	\$149.00

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TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
CORRUGATING DEFECT/REMEDY CD, SIXTH EDITION	0101R153CD	\$87.00	\$130.00
CORRUGATING DEFECT / REMEDY MANUAL, SIXTH EDITION - (PRINT AND CD)	0101R153SET	\$155.00	\$230.00
MANUAL DE DEFECTOS/REMEDIOS EN LA CORRUGACION, SEXTA EDICION	0101R153CDS	\$87.00	\$130.00
CORRUGATOR BONDING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS, SECOND EDITION	0101R265	\$75.00	\$97.00
CORRUGATOR MONITOR	0101R285	\$25.00	\$38.00
CORRUGATOR ROLL WEAR MEASUREMENT	0101R261	\$25.00	\$38.00
COST SAVING STRATEGIES IN PAPERMAKING CHEMISTRY	0101R325	\$150.00	\$215.00
CREATING VALUE THROUGH PACKAGING - UNLOCKING A NEW BUSINESS AND MANAGEMENT STRATEGY	12CVTP	\$50.00	\$60.00
CRITICAL THINKING IN CONVERTING	0101R302	\$81.00	\$121.00
CSR STRATEGIES: CORPORATE SOCIAL RESPONSIBILITY FOR A COMPETITIVE EDGE IN EMERGING MARKETS	10CSR	\$29.00	\$35.00
D			
DICTIONARY OF PAPER, FIFTH EDITION	0102B058	\$75.00	\$112.00
DICTIONARY OF PAPER CD, FIFTH EDITION	0102B058CD	\$75.00	\$112.00
DYE-BREAKING AGENTS DATABASE	0101R264	\$50.00	\$75.00
E			
ECONOMICS OF THE PULP AND PAPER INDUSTRY, SECOND EDITION	0202FIN01-2	\$89.00	\$89.00
ELECTROCHEMICAL PROCESSING FOR THE PULP & PAPER INDUSTRY	0101RECP	\$30.00	\$39.00
ELEMENTAL CHLORINE FREE BLEACHING: A TAPPI PRESS ANTHOLOGY OF PUBLISHED PAPERS	0101R283	\$83.00	\$124.00
ENSURING WORKPLACE COMPETENCE: DEVELOPING TRAINING AND CERTIFICATION MATERIALS FOR TODAY'S EMPOWERED WORKFORCE	0101R256	\$70.00	\$103.00
ENVIRONMENTAL MANAGEMENT AND CONTROL, SECOND EDITION	0202FIN19-2	\$118.00	\$118.00
ENVIRONMENTAL REGULATIONS FOR PRINTERS	08ERP	\$385.00	\$424.00
EXCITING WORLD OF FLEXOGRAPHY, THE CD-ROM	WPL-EWF	\$75.00	\$83.00
EXTRUSION COATING MANUAL, FIFTH EDITION - PRINT (NEW)	0101R345	\$190.00	\$247.00
EXTRUSION COATING MANUAL, FIFTH EDITION (ELECTRONIC DOCUMENT) (NEW)	0101R345EL	\$190.00	\$247.00
EXTRUSION COATING MANUAL, FIFTH EDITION (PRINT AND ELECTRONIC DOCUMENT) (NEW)	0101R345BUN	\$285.00	\$321.00
F			
FILM EXTRUSION MANUAL, SECOND EDITION	0101R313	\$157.00	\$205.00
FLEXOGRAPHIC TERMS: A GLOSSARY OF TERMS USED IN FLEXOGRAPHIC PRINTING ON CORRUGATED BOARD	0101R279	\$26.00	\$42.00
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FUNDAMENTALS OF FIBER SCIENCE	15FUNDFIBER	\$149.00	\$159.00
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G			
GLOSSARY OF REPROGRAPHY AND NON-IMPACT PRINTING TERMS FOR THE PAPER AND PRINTING INDUSTRIES	0101R164	\$17.00	\$25.00
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GUIDELINES FOR THE SAFE OPERATION OF STEAM HEATED PAPER MACHINE DRYERS	0101R250	\$37.00	\$54.00
GUIDELINES FOR THE SAFE OPERATION OF YANKEE DRYERS, SECOND EDITION	0101R244	\$24.00	\$36.00
H			
HANDBOOK FOR PULP AND PAPER TECHNOLOGISTS (THE SMOOK BOOK) FOURTH EDITION	0202SMOOK4	\$95.00	\$123.00
HANDBOOK OF PULP AND PAPER TERMINOLOGY: A GUIDE TO INDUSTRIAL AND TECHNOLOGICAL USAGE, SECOND EDITION	0202TERM	\$69.00	\$79.00
HANDBOOK FOR PULP AND PAPER TECHNOLOGISTS (THE SMOOK BOOK) FOURTH EDITION AND HANDBOOK OF PULP AND PAPER TERMINOLOGY - SET	0202SMOOKSET4	\$140.00	\$175.00
HANDBOOK FOR PULP AND PAPER TECHNOLOGISTS, FIRST EDITION (SPANISH)	0102B055	\$85.00	\$127.00
HEAT SEALING TECHNOLOGY AND ENGINEERING FOR PACKAGING	10HEATSTE	\$145.00	\$175.00
HIGH PURITY PULPS: TESTING, ACCESSIBILITY AND REACTIVITY	0101R309	\$31.00	\$52.00
I			
ILLUSTRATED GLOSSARY OF PACKAGING TERMINOLOGY, SECOND EDITION	16PACKTERM	\$109.00	\$120.00
IMPROVEMENT BASED ISO-9000 QUALITY SYSTEM IMPLEMENTATION PLANS FOR PACKAGING PLANTS	08ISOIP	\$60.00	\$66.00
INDUSTRIAL ENERGY HARVEST: MANAGING ENERGY FROM THE TOP DOWN, THE	08INDENERGY	\$40.00	\$40.00
INDUSTRIAL ENVIRONMENTAL CONTROL - PULP AND PAPER INDUSTRY, THIRD EDITION	0101R296	\$62.00	\$93.00
INDUSTRIAL ENVIRONMENTAL CONTROL PULP AND PAPER INDUSTRY, SECOND EDITION, (SPANISH)	0102B056S	\$87.00	\$30.00
INTRODUCTION TO BIOFUELS	11INTBIO	\$100.00	\$20.00
INTRODUCTION TO NANAOCOMPOSITE MATERIALS, PROPERTIES, PROCESSING, CHARACTERIZATION	16INTNANO	\$89.00	\$99.00
INTRODUCTION TO NONWOVENS	0101R271	\$28.00	\$42.00
INTRODUCTION TO NONWOVENS TECHNOLOGY	12INT	\$149.00	\$169.00
K			
KRAFT PULPING	0101R171	\$58.00	\$87.00
KRAFT RECOVERY BOILERS	0102B064	\$93.00	\$140.00
KRAFT TRIO - KRAFT PULPING, KRAFT RECOVERY PROCESS AND KRAFT RECOVERY BOILER TRIO BUNDLE	KRAFTRIO	\$257.00	\$371.00

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REFERENCE SECTION

TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
L			
LEAN MAINTENANCE	08LEANMAIN	\$42.00	\$56.00
LEAN SAFETY: TRANSFORMING YOUR SAFETY CULTURE WITH LEAN MANAGEMENT	12SAFE	\$37.00	\$42.00
LIGNIN & LIGNANS ADVANCES IN CHEMISTRY	11LIGNIN	\$158.00	\$170.00
M			
MAINTENANCE AND CALIBRATION MANUALS FOR ROTARY DIECUTTERS AND FLEXO FOLDER-GLUERS	0101R245	\$49.00	\$73.00
MAINTENANCE PAINTING OF STEEL STRUCTURES IN PULP AND PAPER MILLS - (PRINT)	0101R339	\$31.00	\$50.00
MAINTENANCE PAINTING OF STEEL STRUCTURES IN PULP AND PAPER MILLS (ELECTRONIC DOCUMENT)	0101EMAIN	\$31.00	\$50.00
MAINTENANCE PLANNING & SCHEDULING BOOK	10MPSB	\$109.00	\$130.00
MAINTENANCE - PREVENTIVE MAINTENANCE, ESSENTIAL CARE AND CMS BOOK	10PMEC	\$135.00	\$155.00
MAINTENANCE - RELIABILITY-FOCUSED SPARE PARTS AND MATERIALS MANAGEMENT	10RSPMM	\$59.00	\$74.00
MAINTENANCE - RESULTS ORIENTED RELIABILITY AND MAINTENANCE MANAGEMENT	10RPRMM	\$105.00	\$135.00
MAINTENANCE BOOK SMALL COMBO - (PREVENTIVE MAINTENANCE ESSENTIAL CARE AND CONDITION	10MAINSET	\$309.00	\$329.00
MONITORING BOOK, MAINTENANCE PLANNING AND SCHEDULING BOOK, RESULTS ORIENTED RELIABILITY AND MAINTENANCE MANAGEMENT BOOK)			
MASS TRANSPORT AND REACTIVE BARRIERS IN PACKAGING: THEORY, APPLICATIONS, & DESIGN	15TRANSPKG	\$179.00	\$189.00
MATERIALS, CORROSION PREVENTION, AND MAINTENANCE, SECOND EDITION	0202FIN15-2	\$89.00	\$89.00
MECHANICAL PULPING, SECOND EDITION	0202FIN05-2	\$118.00	\$118.00
MECHANICAL PULPS: FROM WOOD TO BLEACHED PULP	0101R278	\$96.00	\$143.00
MECHANICAL SEALS: GUIDELINES FOR THE PULP AND PAPER INDUSTRY	0101R223	\$25.00	\$38.00
MECHANICS OF PAPER PRODUCTS	13MOPP	\$89.00	\$99.00
MECHANICS OF ROLLERS, THE	0101R255	\$75.00	\$112.00
MICRO AND NANOPARTICLES IN PAPERMAKING	0101R255J	\$72.00	\$108.00
MECHANICS OF WEB HANDLING, THE	0101R273	\$86.00	\$112.00
MECHANICS TRILOGY - MECHANICS OF ROLLERS, MECHANICS OF WEB HANDLING, AND WINDING MACHINES:			
MECHANICS AND MEASUREMENTS TRIO-BUNDLE	0101ROISUM	\$243.00	\$362.00
ROISUM SERIES - MECHANICS OF ROLLERS, MECHANICS OF WEB HANDLING, WINDING MACHINES:			
MECHANICS AND MEASUREMENTS, AND CRITICAL THINKING IN CONVERTING QUAD - BUNDLE	0101ROISUM4	\$308.00	\$459.00
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PAPERMAKING PART 1, STOCK PREPARATION AND WET END, SECOND EDITION	0202FIN08-2	\$148.00	\$148.00
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PIGMENT COATING AND SURFACE SIZING OF PAPER, SECOND EDITION	0202FIN11-2	\$148.00	\$148.00
PIGMENTS FOR PAPER	0102B062	\$103.00	\$155.00
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PRINCIPLES OF WET END CHEMISTRY	0101R241	\$50.00	\$70.00
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STANDARDS, TIPS AND USEFUL METEHODS - COMPANY LICENSE (ONLINE)	(SEE BACK COVER FOR DETAILS)		
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STARCH AND STARCH PRODUCTS IN SURFACE SIZING AND PAPER COATING	0101R336	\$159.00	\$199.00
STARCH AND STARCH PRODUCTS IN SURFACE SIZING AND PAPER COATING (ELECTRONIC DOCUMENT)	0101ESTARCH	\$159.00	\$199.00
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TAPPI INDUSTRY COMPENSATION SURVEY	COMP16	\$30.00	\$50.00
TAPPI INDUSTRY COMPENSATION SURVEY	COMP16-NP	\$200.00	\$200.00
TAPPI'S INDUSTRY COMPENSATION SURVEY. NON-PARTICIPANT ACCESS TO FILTERED DATA AND FULL REPORTING CAPABILITIES.	TAPPICOMPSVNON	\$200.00	\$200.00

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TITLE	ITEM NUMBER	MEMBER PRICE	NON-MEMBER
TAPPI'S INDUSTRY COMPENSATION SURVEY. PARTICIPANTS RECEIVE FULL ACCESS TO FILTERED DATA AND FULL REPORTING CAPABILITIES.	TAPPICOMPSURVEY	\$30.00	\$50.00
TECHNICAL NEEDS, THE: NONWOVENS FOR MEDICAL/SURGICAL AND CONSUMER USES	0102B049	\$31.00	\$46.00
TEN-YEAR FORECASTS OF DISRUPTIVE TECHNOLOGIES IN PAPER AND BOARD TO 2020	RPTPAPER2020	\$4,631.00	\$5,344.00
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ULTIMATE ROLL AND WEB DEFECT TROUBLESHOOTING GUIDE, THE - PRINT	0101R335	\$159.00	\$240.00
ULTIMATE ROLL AND WEB DEFECT TROUBLESHOOTING GUIDE, THE (ELECTRONIC DOCUMENT)	0101RWELECT	\$159.00	\$240.00
ULTIMATE ROLL AND WEB DEFECT TROUBLESHOOTING GUIDE, THE (PRINT AND ELECTRIC DOCUMENT)	0101RWELECTBUN	\$239.00	\$299.00

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WEB MACHINE BUYING GUIDE - DESIGNING FOR, INSTALLING AND MAINTAINING WEB EQUIPMENT	11WEBMACH	\$150.00	\$175.00
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PAPER MACHINE WET END, THE	MPP-12	\$78.00	\$119.00
PAPER MACHINE DRY END, THE	MPP-13	\$78.00	\$119.00
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PRACTICAL PAPERMAKING SERIES SET - CDS 1 - 10	PPSETCD	\$927.00	\$1,406.00

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CALCULATION FOR TIP 0108040210 SOFTWARE	EZSHELL	\$1,699.00	\$1,869.00
CALIBRATED SIZE ESTIMATION CHART (TRANSPARENCY)	0109DIRTCAL	\$300.00	\$350.00
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DIRT ESTIMATION CHART	0109DIRT	\$41.00	\$58.00
TAPPI HAS A SOLUTION FOR DIRT -- THE KIND THAT GETS INTO YOUR PRODUCTS DURING THE MANUFACTURING OR SHIPPING PROCESS. TAPPI'S DIRT CHART CARDS ESTIMATE THE EQUIVALENT BLACK AREA (EBA) OF DIRT OR OTHER COLORED SPECKS.			
SIZE ESTIMATION CHART (TRANSPARENCY)	0109DIRTT	\$57.00	\$82.00
DEVELOPED FROM AND BASED ON THE TAPPI DIRT ESTIMATION CHART, THIS TRANSPARENCY IS USED TO MEASURE THE SIZE OF SPOTS, DEFECTS, OR INCLUSIONS OVER THE RANGE OF 0.02 TO 5.00 SQUARE MILLIMETERS IN PAPER AND OTHER INDUSTRIAL MATERIALS SUCH AS TEXTILES OR PLASTICS.			
MAP AND POSTER			
PULP AND PAPER "MILLS OF THE WORLD" MAP	12PPMAP	\$299.00	\$319.00
PAPERMAKING: THE PICTORIAL HISTORY (POSTER)	0109FLOW	\$23.00	\$34.00
CONFERENCE PROCEEDINGS			
2012 ADVANCED COATING FUNDAMENTALS SYMPOSIUM PROCEEDINGS, PRINT ONLY	ADCTGPRINT-12	\$149.00	\$198.00
2014 ADVANCED COATING FUNDAMENTALS SYMPOSIUM PROCEEDINGS FLASH DRIVE	ADCTGFD-14	\$74.00	\$111.00
2016 ADVANCED COATING FUNDAMENTALS SYMPOSIUM PROCEEDINGS FLASH DRIVE	ADCTGFD-16	\$74.00	\$111.00
2016 ADVANCED COATING FUNDAMENTALS SYMPOSIUM, PRINT	ADCTGPRINT-16	\$149.00	\$198.00
2012 NANOTECHNOLOGY INTERNATIONAL CONFERENCE FOR RENEWABLE MATERIALS CD	12NAN OCD	\$100.00	\$137.00
2013 PAPERCON, NET AND TISSUE FORUM CONFERENCE PROCEEDINGS FLASH DRIVE	PAPERFD-13	\$74.00	\$111.00
2014 PAPERCON, NET AND TISSUE FORUM CONFERENCE PROCEEDINGS FLASH DRIVE	PAPERFD-14	\$74.00	\$111.00
2016 PAPERCON, NET AND TISSUE FORUM CONFERENCE PROCEEDINGS FLASH DRIVE	PAPERFD-16	\$74.00	\$111.00
2012 PEERS CONFERENCE PROCEEDINGS CD	PEERS-12	\$74.00	\$111.00
2013 PEERS CONFERENCE PROCEEDINGS FLASH DRIVE	PEERSFD-13	\$74.00	\$111.00
2017 PEERS CONFERENCE PROCEEDINGS FLASH DRIVE	PEERSFD-17	\$74.00	\$111.00
2012 PLACE CONFERENCE PROCEEDINGS CD	PLACECD-12	\$74.00	\$111.00
2014 PLACE CONFERENCE PROCEEDINGS FLASHDRIVE	PLACEFD-14	\$74.00	\$111.00
IDCON MAINTENANCE MANAGEMENT BOOK SERIES			
RELIABILITY-FOCUSED SPARE PARTS & MATERIALS MANAGEMENT	10RSPMM	\$59.00	\$74.00
PREVENTIVE MAINTENANCE, ESSENTIAL CARE AND CMS BOOK	10PMEC	\$135.00	\$155.00
MAINTENANCE PLANNING & SCHEDULING BOOK	10MP SB	\$109.00	\$130.00
RESULTS ORIENTED RELIABILITY & MAINTENANCE MANAGEMENT	10RPRMM	\$105.00	\$135.00
MAINTENANCE BOOK SMALL COMBO: PREVENTIVE MAINTENANCE, MAINTENANCE PLANNING & RESULTS ORIENTED	10MAINSET	\$309.00	\$329.00

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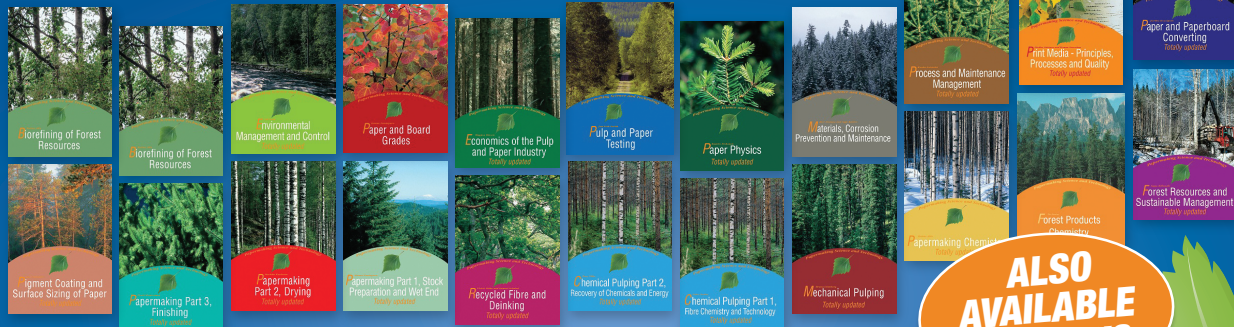
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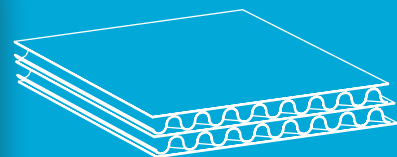
PAPERMAKING

- 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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