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Nota di contenuto	Front Cover; Manufacturing Flexible Packaging; Copyright Page; Contents; Introduction; Background; Reference; 1 Basics of Web Processes; Web Tension; Web Winding; Cross-Web Variation; Web Dimensional Analysis; Industry Units of Measure; Web Length Estimation; Roll Rewind Designation; 2 Rotogravure Printing; Gravure Process; Gravure Cylinders; Halftone Image Reproduction; Ink Metering; Gravure Process Innovation; Cylinder Cost and Cycle Time; Work Practices; Reference; 3 Flexographic Printing; The Flexo Process; Numerical Color Space; Flexo Ink Metering Flexo Halftone Printing (Process Printing)Flexo Process Innovation; Reference; 4 Adhesive Lamination; Adhesive Laminating Process; Adhesive Lamination Strength; Other Coating Processes; Adhesive Laminating Innovation; Reference; 5 Extrusion Lamination and Coating; Extrusion Laminating Process; Promoting Adhesion: Melt Curtain; Promoting Adhesion: Substrate; Extrusion Coating Process; Extrusion Laminating Innovation; References; 6 Finishing and Slitting; Communicating Slit Roll Requirements; Slitting Options; Rewind Options; References; 7 In-Line Processes; Equipment Requirements Operational ConsiderationsAvailability; Performance; Quality; Success Criteria; 8 OEE Effectiveness; Overall Equipment Effectiveness;

Availability; Performance; Quality; OEE Calculation; References; 9 Efficiency and Cost Accounting; Efficiency; Material Waste; Time Waste; Cost Accounting; Minimum Order Size; References; 10 Basics of Control Systems; Distributed Control Systems; Data Inputs; Process Feedback; Open-Loop Control System; Closed-Loop Control System; PID Controls; References; 11 Rotogravure Presses; Press Components; Ink Viscosity; Electrostatic Assist; Image Monitoring
12 Flexographic Presses Press Components; Plate Cylinder Pressure; Plates, Mounting Tape, and Plate Sleeves; Drying Technology; Reference; 13 Adhesive Laminators; Dry Bond Laminators; Solventless Laminators; Online Coating Measurement; 14 Flexible Packaging Extrusion Coating/Laminating Line; Line Configuration; Gauge Measurement and Control; 15 Slitters; 16 Preventative Maintenance versus Available Production Time; Availability; Preventative Maintenance; Calibration; Actual Operating Time; 17 Setup/Cleanup versus Scheduled Production Time; Performance; Setup and Cleanup Decreased Speeds and Minor Stoppages Increased Speeds; 18 Saleable Product versus Product Produced; Quality; Reference; 19 Paper; Paper Dimensioning; Paper Grades; Paper Coatings; Paper for Flexible Packaging; References; 20 Foil; Production; Converting; Commercial Trends; References; 21 Unoriented Plastic Films; Flexible Films; Cast; Tubular; General Film Property Effects; References; 22 Oriented Plastic Films; Film Orientation; Oriented Film Applications; Cast (Tenter); Tubular (Bubble); Special Oriented Film Effects; References; 23 Bulk Polyolefin Resins; Polymer Structure
Functional Description

Sommario/riassunto

Efficiently and profitably delivering quality flexible packaging to the marketplace requires designing and manufacturing products that are both "fit-to-use" and "fit-to-make". The engineering function in a flexible packaging enterprise must attend to these dual design challenges. Flexible Packaging discusses the basic processes used to manufacture flexible packaging products, including rotogravure printing, flexographic printing, adhesive lamination, extrusion lamination/coating; and finishing/slitting. These processes are then related to the machines used to practice them, emphasizing
