



# Modern Particleboard & Dry-Process Fiberboard Manufacturing

By Thomas M. Maloney



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**Modern Particleboard & Dry-Process Fiberboard Manufacturing** By Thomas M. Maloney

This updated edition presents comprehensive, practical information on particleboard and a wide array of other composite wood products. It is designed to provide accessible information to the novice and valuable insight to the manufacturing professional. The book, written by Thomas M. Maloney, covers manufacturing practices, processing systems, product standards and material properties, and presents material ranging from an overview of the industry and definitions of terms to technical factors governing production. This updated edition also includes an all-new chapter which focuses on the enormous range of composite panels and lumber products, including plywood, MDF, fiberboard, OSB/waferboard, and lumber or timber composites. Chapters include:

- introduction;
- production and markets;
- modern processing systems;
- composition board materials: properties and testing;
- parameters affecting board properties;
- raw materials and particle geometry: effects on board properties;
- particle generation, conveying, and storage;
- drying principles and practices;
- moisture measurement and control;
- particle separation: principles and equipments;
- fire and explosions: prevention and detection;
- resins and other additives;
- resin/wax applications and blenders;
- caul and caulless systems;
- mat forming and formers;
- prepressing;
- hot pressing and presses;
- finishing board;
- and •new developments.



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