

## **Wood Chemical Products**

Chemical composition and analysis of wood. Characteristics, properties and chemical reactions of cellulose, semi-cellulose, lignin and extracts. Chemical properties and utilization of wood (chemicals, wood pulp, paper, polymer cellulose products, hydrolysates of wood, lignin, extracts and energy). Methods of chemical wood technology. Chemical wood products (pulp, paper, cellulose, cellulose derivatives - synthetic fibers, film, varnishes, etc., derivatives of semi-cellulose, lignin and extracts, sugars, resins, energy, etc.). Chemical production technology (raw materials, machinery, production stages, technological conditions). Properties and uses.