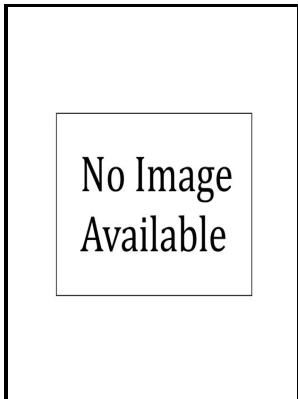


Art of paper-making - a practical handbook of the manufacture of paper from rags, esparto, straw, and other fibrous materials, including the manufacture of pulp from wood fibre ...

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Description: -

Papermaking -- Handbooks, manuals, etc.art of paper-making - a practical handbook of the manufacture of paper from rags, esparto, straw, and other fibrous materials, including the manufacture of pulp from wood fibre ...

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What is wanted is not a mincing or grinding of the fibre, but a drawing out or separation of the fibres one from another; in fact, the name of the machine indicates pretty accurately the nature of the action required—beating. Bertrams have introduced a system of direct driving for these engines by which, it is said, there is a considerable saving in power.

The art of paper

The object of the numerous inventors who have devised processes for the disintegration of wood fibre—that is, the separation of cellulose from the intercellular matters in which the fibres are enveloped—has necessarily been to dissolve out the latter without injury to the cellulose itself, but it may be said that as yet the object has not been fully attained by either of the processes which have been introduced. The ends of the drum are formed of two discs of wood, generally mahogany, upon which the coarse gauze is fastened as a backing, and this is covered with the fine wire gauze.

The art of paper

So long ago as September 25th, 1851, the author's brother, Mr. The undissolved matter is filtered off, washed, and again treated with bromine water.

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A greater portion of the water escapes through the wire-cloth, but a further portion is removed by the passage of the pulp across two vacuum boxes, connected with four powerful vacuum pumps, which renders the half-stuff sufficiently dry to handle; but to render it still more so, it now

passes between couch rolls, and is either run into webs, or, as is sometimes the case, it is discharged into boxes, the web of pulp thus treated being about an inch in thickness. . At first acetic acid and chloride of lime decompose into calcium acetate and free hypochlorous acid.

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