

| | Pulping/ de-ink | Screen pulp | Cleaning (Cyclone) |
|-----------------------|---------------------------|-----------------|--------------------|
| Main (Product) Input | 10,000 kg/ day | 110,000 kg/ day | 108,000 kg/ day |
| Liq | 100,000 kg | | |
| Water | | | |
| Additive Ratio | | | |
| Additive Input | | | |
| Eff. Conversion | | 0.02 | |
| Effluent Output | | 2,000 kg/ day | 48,600 kg/day |
| Air Add Ratio | | | |
| Air input | | | |
| Prod Conversion | | | 0.55 |
| Main (Product) Output | 110,000 kg/day | 108,000 kg/day | 59,400 kg/day |
| Density liq | 1291 kg/m ³ | | |
| Paper density | 250 kg/m ³ | | |
| Vol rate | 65.67 m ³ /day | | |
| Vol rate ref | 4,800 m ³ /day | | |
| COD ref | 5,400 ml/l | | |
| COD Eff | 73.9 ml/l | | |
| Treated COD eff | 11.49 ml/l | | |

$X = 3,700 \text{ kg/day}$ of white liquor

Mass of the NaOH = $0.1 * 3,700 \text{ kg/day} = 370 \text{ kg/day}$

Mass $\text{H}_2\text{O}_2 = 0.1 * 3,700 \text{ kg/day} = 370 \text{ kg/day}$

Mass of $\text{Na}_2\text{S} = 0.2 * 3,700 \text{ kg/day} = 740 \text{ kg/day}$

Mass of water = $0.5 * 3,700 \text{ kg/day} = 1,850 \text{ kg/day}$

Mass fatty acid = $0.1 * 3,700 \text{ kg/day} = 370 \text{ kg/day}$

Mass Balance Calculations Pulp Paper

Zhe Xu



Mass Balance Calculations Pulp Paper:

Dioxin Contamination of Food and Water United States. Congress. House. Committee on Energy and Commerce. Subcommittee on Health and the Environment, 1989 **Papers and Addresses Presented at the Annual Meeting of the Technical Association of the Pulp and Paper Industry**, 1980 Abstract Bulletin of the Institute of Paper Chemistry, 1987 **Fundamental Advances and Innovations in the Pulp and Paper Industry** Brian N. Brogdon, 1999 This work contains 23 papers covering the fundamental advances and innovative applications in pulping bleaching chemical recovery paper manufacture and recycling and deinking *Journal of Pulp and Paper Science*, 1999 Nordic Pulp & Paper Research Journal, 2006 The Paper Mill and Wood Pulp News, 1899 **Treatise on Water Science**, 2010-09-01 Water quality and management are of great significance globally as the demand for clean potable water far exceeds the availability Water science research brings together the natural and applied sciences engineering chemistry law and policy and economics and the Treatise on Water Science seeks to unite these areas through contributions from a global team of author experts The 4 volume set examines topics in depth with an emphasis on innovative research and technologies for those working in applied areas Published in partnership with and endorsed by the International Water Association IWA demonstrating the authority of the content Editor in Chief Peter Wilderer a Stockholm Water Prize recipient has assembled a world class team of volume editors and contributing authors Topics related to water resource management water quality and supply and handling of wastewater are treated in depth Basic Principles and Calculations in Chemical Engineering David Mautner Himmelblau, 1989 New edition of a classic textbook for undergraduate CE students Cited in BCL3 This edition contains a PC disk with 10 Fortran problem solving programs Annotation copyright Book News Inc Portland Or

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