

## CONTENTS

### Energy Saving II

- 
- 1 Energy Saving for KP Plant by Steam Reduction.....Masatake Yoshizu
  - 6 Energy Saving Using The Variable Speed Fluid Coupling.....Junichi Fujimori
  - 13 Activities for Energy Saving in Takaoka Mill  
.....Tadashi Kyoukon and Takuma Fukushima
  - 20 Energy Saving Measures by Low-Emissivity Thermal-Barrier Effect for Heat  
Treatment Facility Like Industrial Furnace  
—Thermo-Resin SV Method—.....Nobuhiko Wakano
  - 26 Practices for Specific Energy Reduction in TMP Process.....Masaru Shinya
- 

### Topics & Information

- 30 GL&V/Kawanoe EZ Hydrocyclone Technology  
—Ultimate Process Performance and Superior Time Economy—  
.....Jose Santiago and Kozo Kishida
  - 33 Standardized and Automated On-Line Pulp Testing for Process Optimization  
and Control  
—L&W Pulp Tester—Case Studies—.....Mitsuhiro Yamazaki
  - 41 Papermaking 4.0 New Concept of VOITH Paper.....Ryozo Shimizu
  - 46 Fully Sprit Seal for Accurate Rotation  
—Application to The Vertical Rotating Equipment—.....Atsushi Ebisu
  - 53 The History of Technological Developments of the Paper Industry in Japan  
after World War II  
Part 4 Chips Import and Integrated Mills of the Japanese Model (1).....Kiyooki Iida
- 

### Review Article(Original Paper)

- 62 CFD Technology for Coating and Paper Making Process.....Masaru Yasuhara
- 

03 Committee report

75 Papyrus

84 Industry News (Domestic and International)

88 List of Titles in Foreign Journals Received by JAPAN TAPPI

89 List of Patents issued and Laid-open Publication

103 Price list of Domestic Logs and Wood Chips by District

104 Other Monthly Statistics

106 News from the Association

---