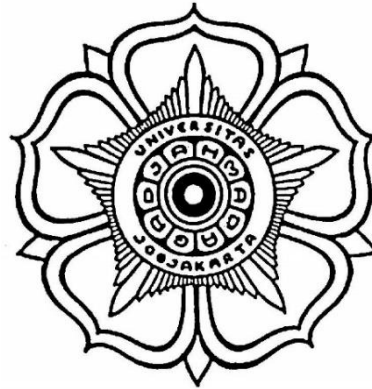


**Study of liquid-air interface oscillation on vertical pipe and its  
correlation with oscillation frequency, vibration level, and surface  
tension**

**THESIS**



**By:**

**Sucipto**

**19/453255/PTK/132101**

**MASTER PROGRAM IN MECHANICAL ENGINEERING**

**DEPARTMENT OF MECHANICAL AND INDUSTRIAL ENGINEERING**

**UNIVERSITAS GADJAH MADA**

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