

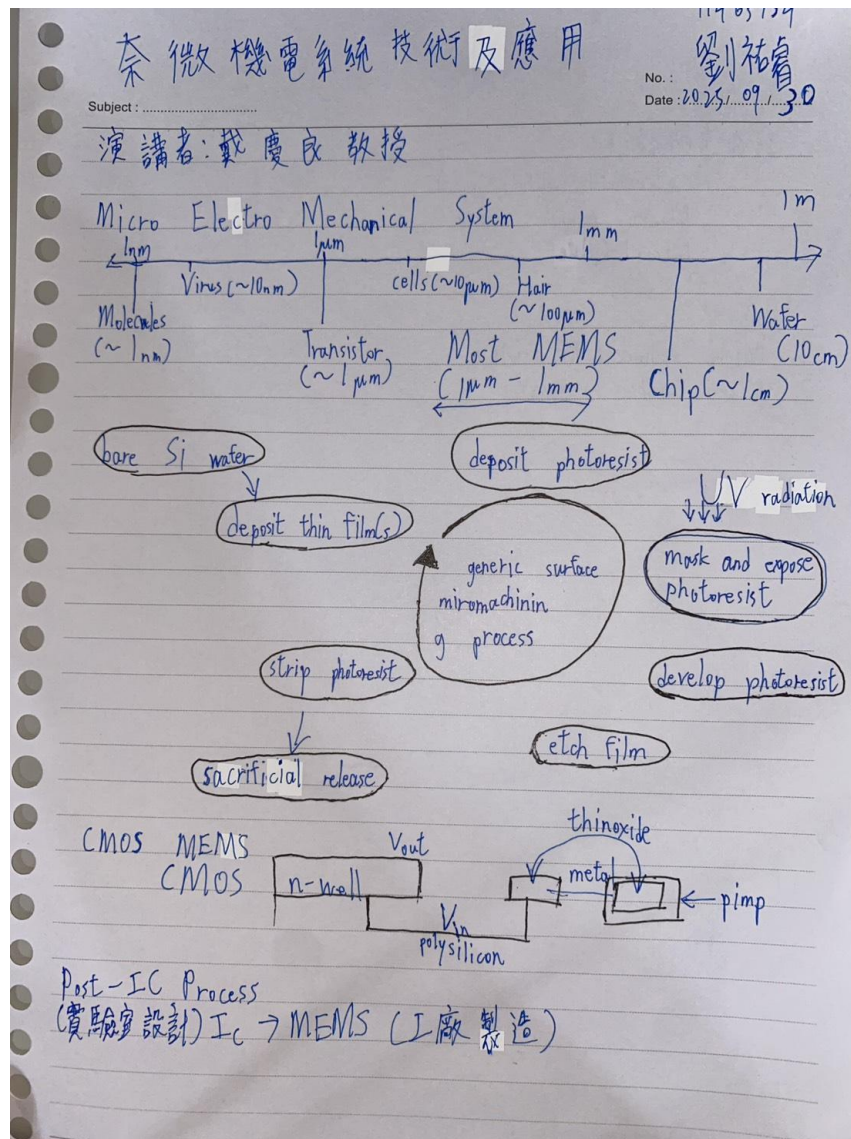
奈微機電系統技術及應用

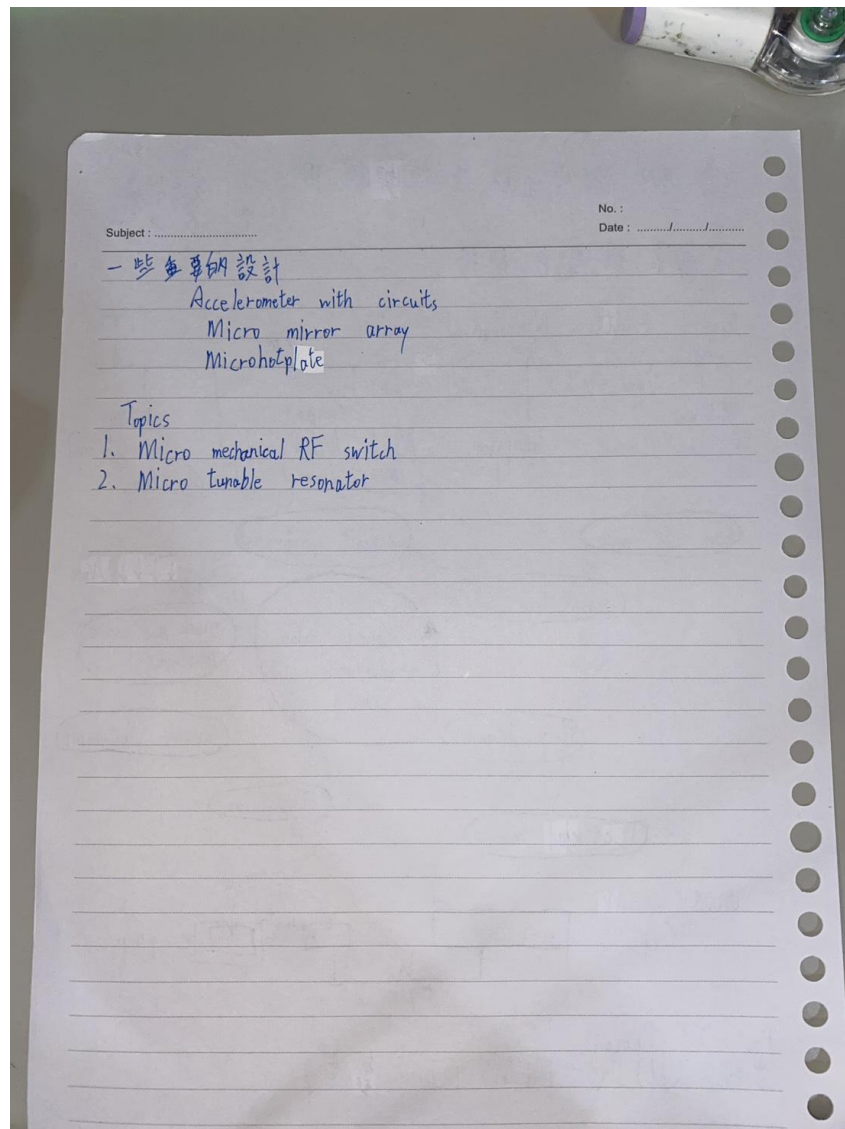
演講日期：114/9/30

演講人：戴慶良

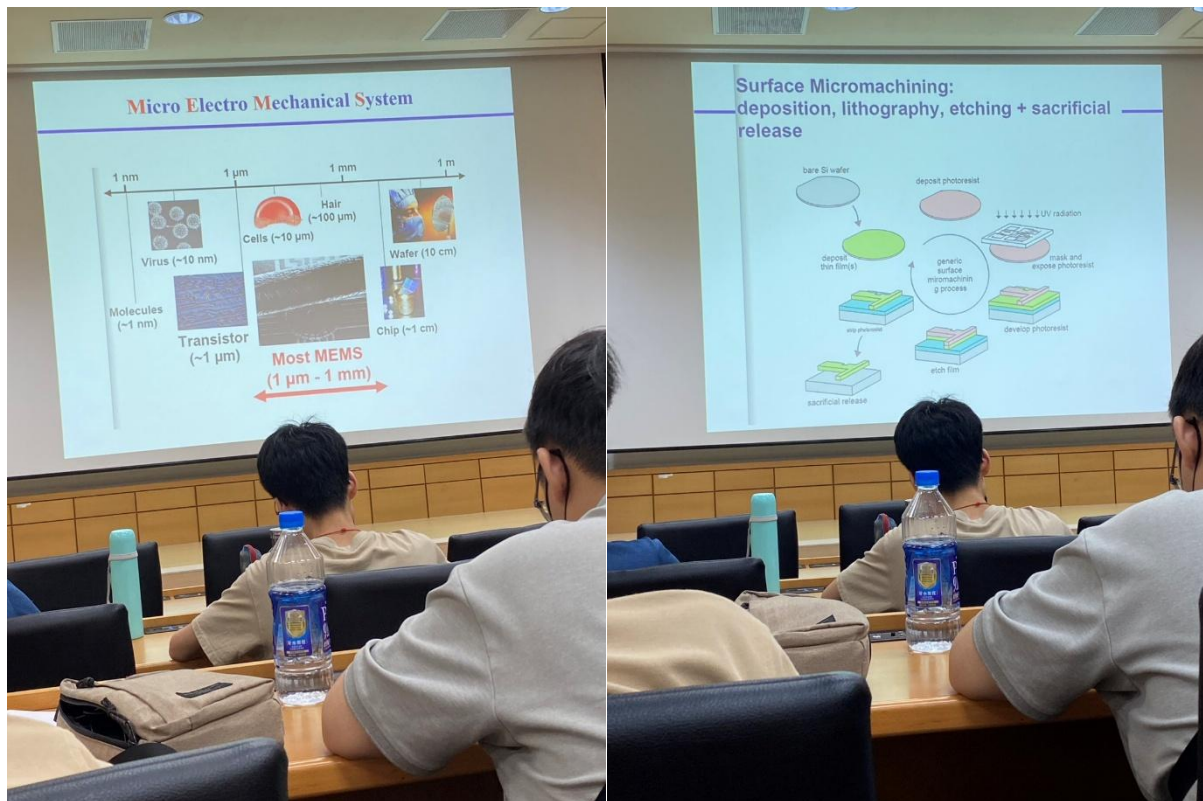
11463154 劉祐睿

手寫筆記

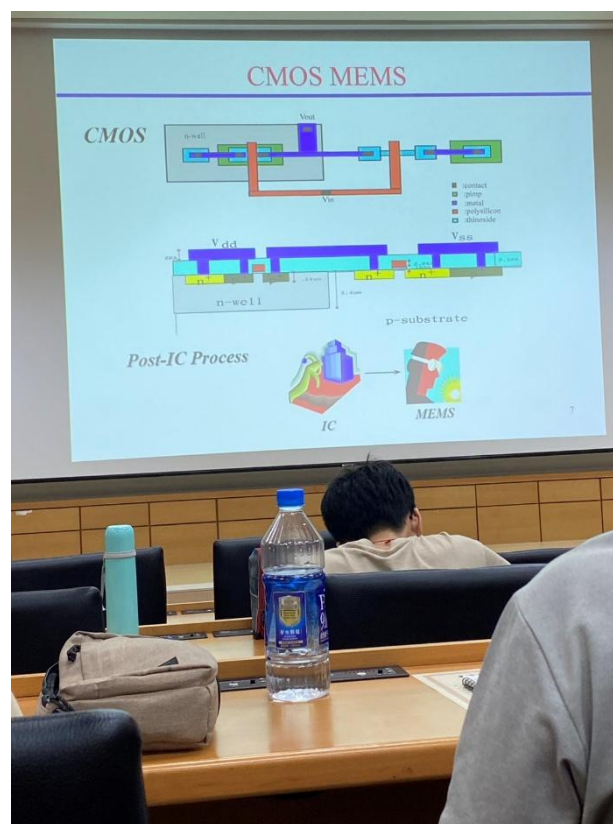




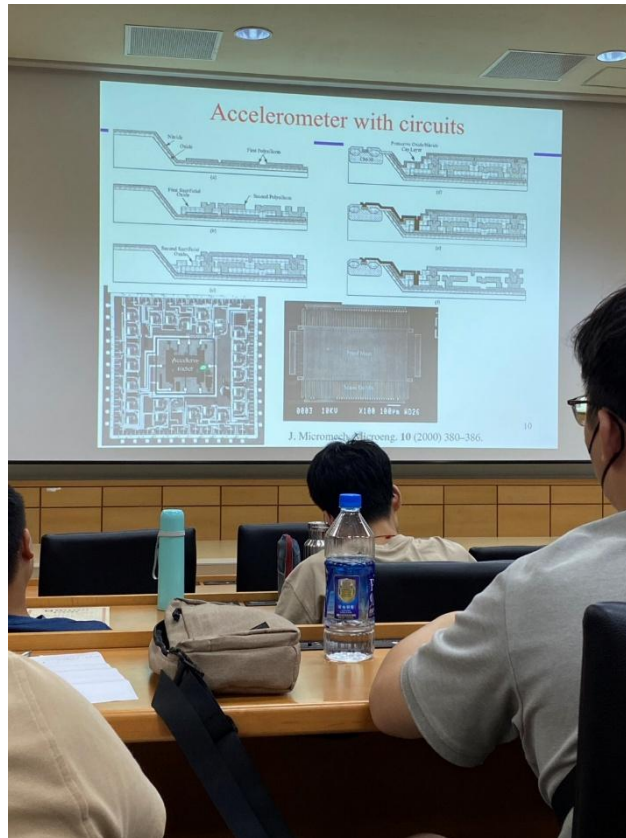
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MEMS 介紹，右圖為生產流程

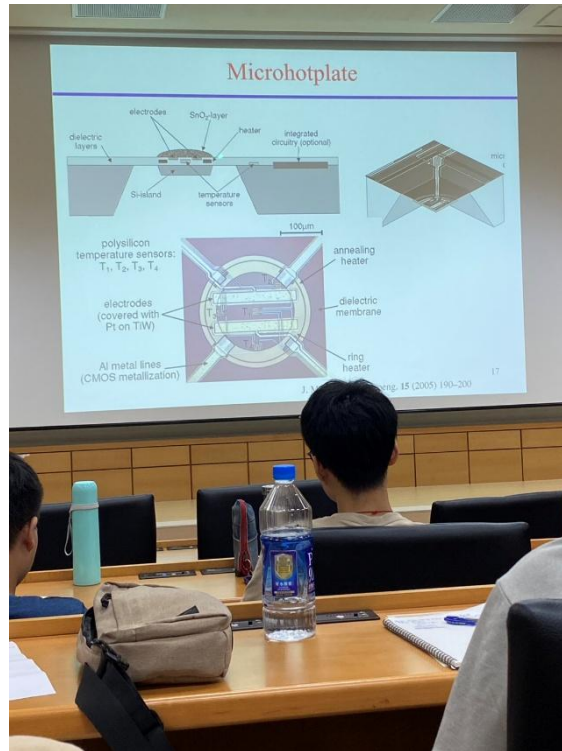


內部設計



含電路的加速度計





- 微熱板，透過加熱膜與溫度感測器控制溫度，氣體感測與材料測試的工具

Introduction

■ Why RF MEMS Switches ?

Switch Type	Insertion loss	Isolation	Power handling	Power consumption	Switching speed	Cost
PIN diodes	Good	Good	Good	Poor	Good	Good
GaAs FETs	Good	Good	Poor	Good	Excellent	Poor
MEMS switches	Excellent (0.1~0.6dB)	Excellent (-40~-50dB)	Excellent	Excellent	Poor	Good

Liu, Yu "MEMS and BST technologies for microwave applications", PIED UNIVERSITY OF CALIFORNIA, SANTA BARBARA, 2002

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MEMS 優劣說明比較圖