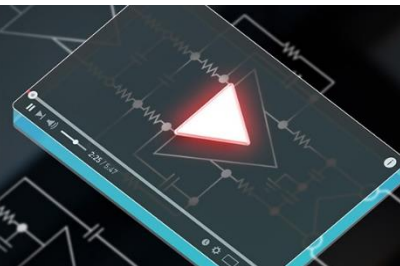


# TI Precision Labs

Seminar 2024



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8:30 – 9:00 a.m.	<b>報到和註冊</b>
9:00 – 9:30 a.m.	<b>簡介、工具、新裝置</b> TI 廣泛的放大器產品組合概覽、用於選擇與分析的工具，以及新裝置。
9:30 – 10:30 a.m.	<b>放大器基礎與規格</b> 本課程針對如何預測因 $V_{os}$ 、 $I_b$ 和溫度漂移而產生的誤差，以及這些誤差來源的內部起源提供了相關指引。檢視 $I_q$ 、電壓轉換速率和頻寬的動態行為概覽。進行產品規格表規格的相關討論。
10:30 – 10:40 a.m.	<b>中場休息</b>
10:40 – 11:50 a.m.	<b>進階放大器技術</b> 針對 CMOS、雙極和 JFET 放大器之間的差異提供一般概覽。介紹零交越 and 零飄移等現代放大器技術改進。討論基本製程差異，因為其攸關放大器性能。
11:50 a.m. – 1:00 p.m.	<b>午餐</b>
1:00 – 2:10 p.m.	<b>輸入電壓雜訊、輸入電流雜訊及濾波技術</b> 透過計算與模擬來預測放大器與電阻雜訊。定義雜訊增益、雜訊頻寬、電流及電壓雜訊頻譜密度，以及總 RMS 雜訊。解釋閃爍與寬頻雜訊。比較實際測量結果和計算結果。
2:10 – 2:20 p.m.	<b>中場休息</b>
2:20 – 3:30 p.m.	<b>電路穩定性分析及補償機制</b> 在運算放大器反相節點上驅動電容負載或具有過多電容，可能會導致振盪。此簡報展現如何使用模擬來預測放大器穩定性，並且討論修正問題的方法。
3:30 – 3:40 p.m.	<b>中場休息</b>
3:40 – 4:40 p.m.	<b>比較器應用</b> 針對比較器的基本運作提供一般概覽。主題包括說明比較器特有的規格、比較器的不同類型和選項，以及常見的客戶應用問題。

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