
臺灣大學應用力學研究所
演 講 公 告

主 講 人：沈昌宏副主任
台灣半導體研究中心

講 題：先進半導體製程技術

摘 要： 如附件

主 持 人： 陳建甫教授

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☆☆ 歡迎聽講，敬請張貼 ☆☆

先進半導體製程技術
Advanced Semiconductor Manufacturing Technology
沈昌宏副主任

摘要

Over several decades of collaboration between industry, academia, and research, Taiwan's semiconductor industry has secured a significant position in the global market. The Taiwan Semiconductor Research Institute (TSRI) plays a crucial role in assisting academic research and talent development. The evolution of semiconductor technology has addressed the demands of various eras, ranging from personal computers and mobile devices to the current advancements in artificial intelligence. Significant progress has been made in emerging semiconductor device fabrication, packaging technologies, and memory. This presentation will share insights from TSRI's extensive experience in semiconductor R&D, focusing on the development of next-generation semiconductor devices, the potential of belloyed 1-nm technology, the importance of advanced packaging processes, and the current status of monolithic 3D integrated circuits. The aim is to provide the audience with a clear understanding of the developmental trajectory of semiconductor technology and its critical future technology directions.