

PM8

200 mm Manual Probe System

DATA SHEET



The PM8 is the ideal solution for precise analytical probing applications up to 200 mm including device and wafer characterization, failure analysis (FA), RF, mm-wave, sub-THz, optoelectronic-engineering and MEMS. The PM8 is designed specifically to provide a highly stable, ergonomic and flexible probing platform.

The innovative fine-glide chuck stage offers a unique simplicity and accuracy by combining free-moving coarse movement and micrometer fine movement. The granite plate can easily withstand any thermal or mechanical influences and therefore ensures complete system stability during testing. This outstanding rigidity of the PM8 makes it ideal for all RF and mm-wave applications up to 500 GHz. These RF tests are supported by the WinCal XE™ calibration software, including LRRM, LRM+, NIST-style TRL and hybrid calibration methods.

The unique movable microscope bridge provides an easy and ergonomic coarse and fine adjustment of the system of up to 200 mm which can be adjusted with just one hand. This makes the PM8 the ideal solution for all FA tasks and wafer-level reliability tests.

Ergonomically, the PM8 was designed with the operator in mind. All controls are located to provide comfortable, effortless control.

The PM8 can be outfitted with a number of accessories and upgrades. These include laser cutters, remote-controlled manual positioners for FA applications, chucks with special designs for calibration substrates and burnishing pads for high frequency applications. Probe cards can easily be used for testing, and packaged parts can be tested with minimum setup adjustment.

FEATURES / BENEFITS

Flexibility	<p>Ideal for FA, WLRL, RF, mm-wave, sub-THz and MEMS</p> <p>Extensive accessories available, such as laser cutters and a wide range of equipment for RF test</p> <p>Works with probe cards and/or packaged parts</p>
Stability	<p>Fine-glide chuck stage on highly stable granite base</p> <p>Ideal for submicron probing</p> <p>Active platen cooling for thermal stability</p> <p>Massive, web-cast frame</p> <p>Superior vibration attenuation</p>
Ease of use	<p>Comfortable and ergonomical operation through low-profile design</p> <p>Straightforward layout of controls</p> <p>Rapid, independent X-Y chuck stage movement</p> <p>Uniquely simple microscope</p>

Suss Pm8 Manual

Andrej Rumiantsev



Suss Pm8 Manual:

On-Wafer Calibration Techniques Enabling Accurate Characterization of High-Performance Silicon Devices at the mm-Wave Range and Beyond Andrej Rumiantsev, 2022-09-01 The increasing demand for more content services and security drives the development of high speed wireless technologies optical communication automotive radar imaging and sensing systems and many other mm wave and THz applications S parameter measurement at mm wave and sub mm wave frequencies plays a crucial role in the modern IC design debug Most importantly however is the step of device characterization for development and optimization of device model parameters for new technologies Accurate characterization of the intrinsic device in its entire operation frequency range becomes extremely important and this task is very challenging This book presents solutions for accurate mm wave characterization of advanced semiconductor devices It guides through the process of development implementation and verification of the in situ calibration methods optimized for high performance silicon technologies Technical topics discussed in the book include Specifics of S parameter measurements of planar structures Complete mathematical solution for lumped standard based calibration methods including the transfer Thru Match Reflect TMR algorithms Design guideline and examples for the on wafer calibration standards realized in both advanced SiGe BiCMOS and RF CMOS processes Methods for verification of electrical characteristics of calibration standards and accuracy of the in situ calibration results Comparison of the new technique vs conventional approaches the probe tip calibration and the pad parasitic de embedding for various device types geometries and model parameters New aspects of the on wafer RF measurements at mmWave frequency range and calibration assurance

Resistive Switching: Oxide Materials, Mechanisms, Devices and Operations Jennifer Rupp, Daniele Ielmini, Ilia Valov, 2021-10-15 This book provides a broad examination of redox based resistive switching memories ReRAM a promising technology for novel types of nanoelectronic devices according to the International Technology Roadmap for Semiconductors and the materials and physical processes used in these ionic transport based switching devices It covers defect kinetic models for switching ReRAM deposition fabrication methods tuning thin film microstructures and material device characterization and modeling A slate of world renowned authors address the influence of type of ionic carriers their mobility the role of the local and chemical composition and environment and facilitate readers understanding of the effects of composition and structure at different length scales e g crystalline vs amorphous phases impact of extended defects such as dislocations and grain boundaries ReRAMs show outstanding potential for scaling down to the atomic level fast operation in the nanosecond range low power consumption and non volatile storage The book is ideal for materials scientists and engineers concerned with novel types of nanoelectronic devices such as memories memristors and switches for logic and neuromorphic computing circuits beyond the von Neumann concept

Semiconductor International ,1993 **Advanced Materials & Processes** ,2001

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