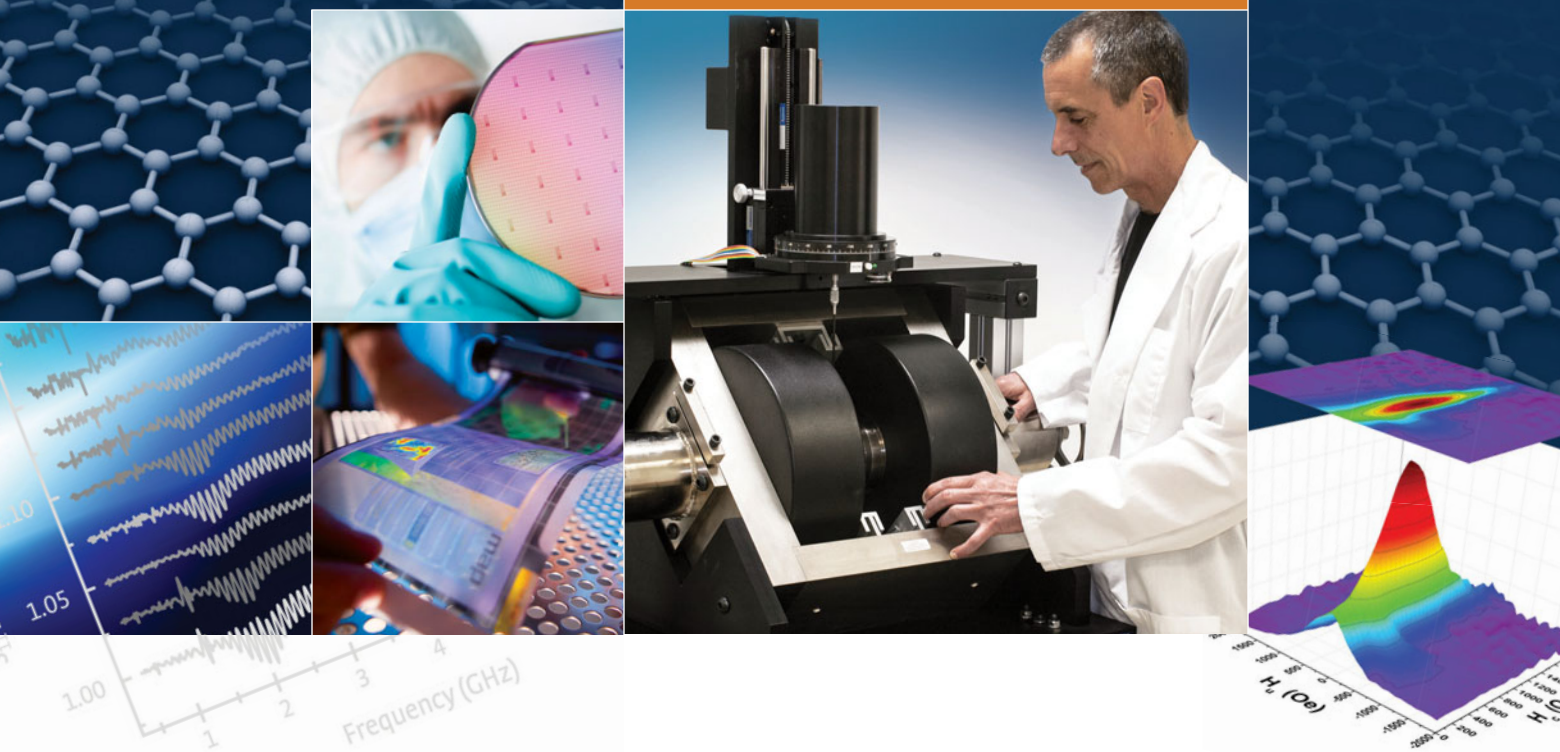
https://doi.org/10.1557/mrs.2015.62 Published online by Cambridge University Press

Advancing
Materials Characterization



Reliable tools for studying:

- 2D materials, including graphene
- Superconducting MEMS materials
- Thin-film, III-V, II-VI, and elemental semiconductors
- Photovoltaic and thermoelectric materials
- Transparent conducting oxides
- Magnetic thin films and nanomagnetic composites, wires, and arrays
- Other nanomaterials

Attending the MRS Spring Meeting?
Visit Lake Shore at **Booth 300**

Be on the Leading Edge of Materials Research

Explore transport properties of new materials that open up possibilities for future development in fields like semiconductors, solar energy, spintronics, and organic electronics.

As a leading innovator in solutions for characterizing materials as a function of temperature and magnetic field, Lake Shore offers systems and probe stations to measure with confidence when analyzing properties of new materials and early-stage devices.

For all your measurement system needs, look to Lake Shore — an industry leader with three decades of expertise in advanced material characterization.

Hall Effect Measurement Systems

- 1 to 10^6 cm^2/V s mobilities
- AC field option for measuring to 10^{-3} cm^2/V s
- Resistances from 10 μΩ to 200 GΩ
- 10 K to 1273 K temp range
- DC fields to 2.3 T

Magnetometer Systems (VSMs & AGMs)

- Highly sensitive and accurate
- Fast – 10 ms/pt
- 4.2 K to 1273 K temp range
- Variable fields to >3 T
- Combination VSM & AGM available
- Excellent reproducibility

Cryogen & Cryogen-Free Probe Stations

- 1.6 K to 675 K temp range
- Up to 102 mm wafer probing
- Vertical or horizontal fields
- DC, RF, microwave, and other probe options
- Hall measurement options also available

Lake Shore CRYOTRONICS
ADVANCING SCIENCE
614.891.2243 | **www.lakeshore.com**

https://doi.org/10.1557/mrs.2015.62 Published online by Cambridge University Press