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Cover Photo:

Semiconductor devices today utilize circuitry that cannot be visualized with the unaided eye. For example, a 0.040 in. square may contain 15 transistors, 25 diodes, and 45 resistors, with 1000 such circuits on one 1/10 by 1/10 in. silicon chip. New technology being developed using electron beam techniques will permit 10,000 such circuits on the same size chip. Each magnitude reduction in size is accompanied by an increase in the magnitude of problems of measurement, fabrication, and specification. Progress in improving the measurement of the materials used in these devices is discussed in the four papers beginning on p. 301.

Recent ASTM Publications

Compilation of Miscellaneous ASTM Standards for Petroleum Products, D 2, \$23.25, 03-402073-12

Compilation of Odor and Taste Threshold Values Data, DS 48, \$25.00, 05-048000-36

Cyclic Stress-Strain Behavior—Analysis, Experimentation, and Failure Prediction, STP 519, \$28.00, 04-519000-30

Applications of Composite Materials, STP 524, \$16.75, 04-524000-33

Fracture Toughness Evaluation by R-Curve Methods, STP 527, \$9.75, 04-527000-30

Biological Methods for the Assessment of Water Quality, STP 528, \$16.25, 04-528000-16

Skid Resistance of Highway Pavements, STP 530, \$12.25, 04-530000-37

Viscosity Testing of Asphalt and Experience with Viscosity Graded Specifications, STP 532, \$8.75, 04-532000-08

Disposal of Plastics with Minimum Environmental Impact, STP 533, \$4.25, 04-533000-19