

## ***Author Index to Volume 112***

Numbers in parentheses in italic type after the volume number are the issue numbers

- No. 1 January-February
- No. 2 March-April
- No. 3 May-June
- No. 4 July-August
- No. 5 September-October
- No. 6 November-December

### **A**

#### **Allen, D. W.**

Holmium Oxide Glass Wavelength Standards. Allen, D. W., **112(6)**, 303 (2007).

### **B**

#### **Baker-Jarvis, J.**

Complex Permittivity Measurements of Planar Building Materials With an Ultra-Wideband Free-Field Antenna Measurement System. Davis, B., Grosvenor, C., Johnk, R., Novotny, D., Baker-Jarvis, J., Janezic, M., **112(1)**, 67 (2007).

#### **Beichl, I.**

A Quantum Algorithm Detecting Concentrated Maps. Beichl, I., Bullock, S. S., Song D., **112(6)**, 307 (2007).

#### **Belmonte, M.**

Optical Frequency Metrology of an Iodine-Stabilized He-Ne Laser Using the Frequency Comb of a Quantum-Interference-Stabilized Mode-Locked Laser. Smith, R. P., Roos P. A., Wahlstrand, J. K., Pipis, J. A., Belmonte, M., **112(6)**, 289 (2007).

#### **Bennett, H. S.**

Extracting Electron Densities in *N*-Type GaAs From Raman Spectra: Theory. Bennett, H. S., **112(4)**, 209 (2007).

Will Future Measurement Needs of the Semiconductor Industry Be Met?. Bennett, H. S., **112(1)**, 25 (2007).

#### **Brownstein, M.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112(3)**, 139 (2007).

#### **Bullock, S. S.**

A Quantum Algorithm Detecting Concentrated Maps. Beichl, I., Bullock, S. S., Song D., **112(6)**, 307 (2007).

### **C**

#### **Comisford, S.**

Comparison Between NIST and AF Laser Energy Standards Using High Power Lasers. Li, X., Scott, T., Cromer, C., Cooper, D., Comisford, S., **112(5)**, 283 (2007).

**Cooper, D.**

Comparison Between NIST and AF Laser Energy Standards Using High Power Lasers. Li, X., Scott, T., Cromer, C., Cooper, D., Comisford, S., **112**(5), 283 (2007).

**Coriell, S. R.**

Convective Instabilities in Two Liquid Layers. McFadden, G. B., Coriell, S. R., Gurski, K. F., Cotrell, D. L., **112**(5), 271 (2007).

**Cotrell, D. L.**

Convective Instabilities in Two Liquid Layers. McFadden, G. B., Coriell, S. R., Gurski, K. F., Cotrell, D. L., **112**(5), 271 (2007).

Flow Control Through the Use of Topography. Kearsley, A. J., Cotrell, D. L., **112**(3), 153 (2007).

**Cromer, C.**

Comparison Between NIST and AF Laser Energy Standards Using High Power Lasers. Li, X., Scott, T., Cromer, C., Cooper, D., Comisford, S., **112**(5), 283 (2007).

**Cundiff, S. T.**

Optical Frequency Metrology of an Iodine-Stabilized He-Ne Laser Using the Frequency Comb of a Quantum-Interference-Stabilized Mode-Locked Laser. Smith, R. P., Roos P. A., Wahlstrand, J. K., Pipis, J. A., Belmonte, M., **112**(6), 289 (2007).

**D**

**Davis, B.**

Complex Permittivity Measurements of Planar Building Materials With an Ultra-Wideband Free-Field Antenna Measurement System. Davis, B., Grosvenor,

C., Johnk, R., Novotny, D., Baker-Jarvis, J., Janezic, M., **112**(1), 67 (2007).

**Doiron, T.**

20 °C—A Short History of the Standard Reference Temperature for Industrial Dimensional Measurements. Doiron, T., **112**(1), 1 (2007).

**Dowell, M. L.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112**(3), 139 (2007).

**Dunkers, J. P.**

Measurement Tools for the Immersive Visualization Environment: Steps Toward the Virtual Laboratory. Hagedorn, J. G., Dunkers, J. P., Satterfield, S. G., Peskin, A. P., Kelso, J. T., Terrill, J. E., **112**(5), 257 (2007).

**F**

**Fraser, G. T.**

“Once is Enough” in Radiometric Calibrations. Fraser, G. T., Gibson, C. E., Yoon, H. W., Parr, A. C., **112**(1), 39 (2007).

**G**

**Gaigalas, A. K.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112**(3), 139 (2007).

Modeling of Photochemical Reactions in a Focused Laser Beam. Gaigalas, A. K., Hunt, F. Y., Wang, L., **112**(4), 191 (2007).

**Gaitan, M.**

Microwave Power Absorption in Low-Reflectance, Complex, Lossy Transmission Lines. Geist, J., Shah, J., Rao, M. V., Gaitan, M., **112(4)**, 177 (2007).

**Gardner, J. L.**

Comparison of Calibration Methods for Tristimulus Colorimeters. Gardner, J. L., **112(3)**, 129 (2007).

**Geist, J.**

Microwave Power Absorption in Low-Reflectance, Complex, Lossy Transmission Lines. Geist, J., Shah, J., Rao, M. V., Gaitan, M., **112(4)**, 177 (2007).

A Low Cost Digital Vibration Meter. Payne, W. V., Geist, J., **112(2)**, 115 (2007).

**Gibson, C. E.**

“Once is Enough” in Radiometric Calibrations. Fraser, G. T., Gibson, C. E., Yoon, H. W., Parr, A. C., **112(1)**, 39 (2007).

**Grosvenor, C.**

Complex Permittivity Measurements of Planar Building Materials With an Ultra-Wideband Free-Field Antenna Measurement System. Davis, B., Grosvenor, C., Johnk, R., Novotny, D., Baker-Jarvis, J., Janezic, M., **112(1)**, 67 (2007).

**Gurski, K. F.**

Convective Instabilities in Two Liquid Layers. McFadden, G. B., Coriell, S. R., Gurski, K. F., Cotrell, D. L., **112(5)**, 271 (2007).

**H**

**Hagedorn, J. G.**

Measurement Tools for the Immersive Visualization Environment: Steps Toward the Virtual Laboratory. Hagedorn, J. G., Dunkers, J. P., Satterfield, S. G.,

Peskin, A. P., Kelso, J. T., Terrill, J. E., **112(5)**, 257 (2007).

**Heimbach, C. R.**

Cosmic Coincidences: Investigations for Neutron Background Suppression. Heimbach, C. R., **112(2)**, 95 (2007).

**Hoffman, R. A.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112(3)**, 139 (2007).

**Hunt, F. Y.**

Modeling of Photochemical Reactions in a Focused Laser Beam. Gaigalas, A. K., Hunt, F. Y., Wang, L., **112(4)**, 191 (2007).

**Hurly, J. J.**

<sup>4</sup>He Thermophysical Properties: New Ab Initio Calculations. Hurly, J. J., Mehl, J. B., **112(2)**, 75 (2007).

**Hwang, J. C.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112(3)**, 139 (2007).

**J**

**Janezic, M.**

Complex Permittivity Measurements of Planar Building Materials With an Ultra-Wideband Free-Field Antenna Measurement System. Davis, B., Grosvenor, C., Johnk, R., Novotny, D., Baker-Jarvis, J., Janezic, M., **112(1)**, 67 (2007).

**Johnk, R.**

Complex Permittivity Measurements of Planar Building Materials With an Ultra-Wideband Free-Field Antenna Measurement System. Davis, B., Grosvenor, C., Johnk, R., Novotny, D., Baker-Jarvis, J., Janezic, M., **112(1)**, 67 (2007).

**K**

**Kearsley, A. J.**

Flow Control Through the Use of Topography. Kearsley, A. J., Cotrell, D. L., **112(3)**, 153 (2007).

**Kelso, J. T.**

Measurement Tools for the Immersive Visualization Environment: Steps Toward the Virtual Laboratory. Hagedorn, J. G., Dunkers, J. P., Satterfield, S. G., Peskin, A. P., Kelso, J. T., Terrill, J. E., **112(5)**, 257 (2007).

**L**

**Levevenson, R.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112(3)**, 139 (2007).

**Li, X.**

Comparison Between NIST and AF Laser Energy Standards Using High Power Lasers. Li, X., Scott, T., Cromer, C., Cooper, D., Comisford, S., **112(5)**, 283 (2007).

**M**

**Marshall, J. C.**

Electro-Physical Technique for Post-Fabrication Measurements of CMOS Process Layer Thicknesses. Marshall, J. C., Vernier, P. T., **112(5)**, 223 (2007).

**McFadden, G. B.**

Convective Instabilities in Two Liquid Layers. McFadden, G. B., Coriell, S. R., Gurski, K. F., Cotrell, D. L., **112(5)**, 271 (2007).

**Mehl, J. B.**

$^4\text{He}$  Thermophysical Properties: New Ab Initio Calculations. Hurly, J. J., Mehl, J. B., **112(2)**, 75 (2007).

Acoustic Eigenvalues of a Quasispherical Resonator: Second Order Shape Perturbation Theory for Arbitrary Modes. Mehl, J. B., **112(3)**, 163 (2007).

**Milner, T. E.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112(3)**, 139 (2007).

**N**

**Nedzelnitsky, V.**

Effect of Power Line Interference on Microphone Calibration Measurements Made at or Near Harmonics of the Power Line Frequency. Wagner, R. P., Nedzelnitsky, V., **112(2)**, 107 (2007).

**Novotny, D.**

Complex Permittivity Measurements of Planar Building Materials With an Ultra-Wideband Free-Field Antenna Measurement System. Davis, B., Grosvenor, C., Johnk, R., Novotny, D., Baker-Jarvis, J., Janezic, M., **112(1)**, 67 (2007).

**P**

**Parr, A. C.**

“Once is Enough” in Radiometric Calibrations. Fraser, G. T., Gibson, C. E., Yoon, H. W., Parr, A. C., **112(1)**, 39 (2007).

**Payne, W. V.**

A Low Cost Digital Vibration Meter. Payne, W. V., Geist, J., **112**(2), 115 (2007).

**Peskin, A. P.**

Measurement Tools for the Immersive Visualization Environment: Steps Toward the Virtual Laboratory. Hagedorn, J. G., Dunkers, J. P., Satterfield, S. G., Peskin, A. P., Kelso, J. T., Terrill, J. E., **112**(5), 257 (2007).

**Pipis, J. A.**

Optical Frequency Metrology of an Iodine-Stabilized He-Ne Laser Using the Frequency Comb of a Quantum-Interference-Stabilized Mode-Locked Laser. Smith, R. P., Roos P. A., Wahlstrand, J. K., Pipis, J. A., Belmonte, M., **112**(6), 289 (2007).

**R**

**Rao, M. V.**

Microwave Power Absorption in Low-Reflectance, Complex, Lossy Transmission Lines. Geist, J., Shah, J., Rao, M. V., Gaitan, M., **112**(4), 177 (2007).

**Roos, P. A.**

Optical Frequency Metrology of an Iodine-Stabilized He-Ne Laser Using the Frequency Comb of a Quantum-Interference-Stabilized Mode-Locked Laser. Smith, R. P., Roos P. A., Wahlstrand, J. K., Pipis, J. A., Belmonte, M., **112**(6), 289 (2007).

**S**

**Sansonetti, C. J.**

Comment on “Argon I Lines Produced in a Hollow Cathode Source, 332 nm to 5865 nm”. Sansonetti, C. J., **112**(6), 297 (2007)

**Satterfield, S. G.**

Measurement Tools for the Immersive Visualization Environment: Steps Toward the Virtual Laboratory. Hagedorn, J. G., Dunkers, J. P., Satterfield, S. G., Peskin, A. P., Kelso, J. T., Terrill, J. E., **112**(5), 257 (2007).

**Scott, T.**

Comparison Between NIST and AF Laser Energy Standards Using High Power Lasers. Li, X., Scott, T., Cromer, C., Cooper, D., Comisford, S., **112**(5), 283 (2007).

**Shah, J.**

Microwave Power Absorption in Low-Reflectance, Complex, Lossy Transmission Lines. Geist, J., Shah, J., Rao, M. V., Gaitan, M., **112**(4), 177 (2007).

**Singerman, D.**

“A Doubt Is at Best an Unsafe Standard”: Measuring Sugar in the Early Bureau of Standards. Singerman, D., **112**(1), 53. (2007).

**Smith, R. P.**

Optical Frequency Metrology of an Iodine-Stabilized He-Ne Laser Using the Frequency Comb of a Quantum-Interference-Stabilized Mode-Locked Laser. Smith, R. P., Roos P. A., Wahlstrand, J. K., Pipis, J. A., Belmonte, M., **112**(6), 289 (2007).

**Song, D.**

A Quantum Algorithm Detecting Concentrated Maps. Beichl, I., Bullock, S. S., Song D., **112**(6), 307 (2007).

**T**

**Terrill, J. E.**

Measurement Tools for the Immersive Visualization Environment: Steps Toward the Virtual Laboratory. Hagedorn, J. G., Dunkers, J. P., Satterfield, S. G., Peskin, A. P., Kelso, J. T., Terrill, J. E., **112**(5), 257 (2007).

V

**Vernier, P. T.**

Electro-Physical Technique for Post-Fabrication Measurements of CMOS Process Layer Thicknesses. Marshall, J. C., Vernier, P. T., **112**(5), 223 (2007).

W

**Wagner, R. P.**

Effect of Power Line Interference on Microphone Calibration Measurements Made at or Near Harmonics of the Power Line Frequency. Wagner, R. P., Nedzelnitsky, V., **112**(2), 107 (2007).

**Wahlstrand, J. K.**

Optical Frequency Metrology of an Iodine-Stabilized He-Ne Laser Using the Frequency Comb of a Quantum-Interference-Stabilized Mode-Locked Laser. Smith, R. P., Roos P. A., Wahlstrand, J. K., Pipis, J. A., Belmonte, M., **112**(6), 289 (2007).

**Wang, L.**

Modeling of Photochemical Reactions in a Focused Laser Beam. Gaigalas, A. K., Hunt, F. Y., Wang, L., **112**(4), 191 (2007).

**White, G. S.**

Biophotonic Tools in Cell and Tissue Diagnostics. Brownstein, M., Hoffman, R. A., Levenson, R., Milner, T. E., Dowell, M. L., Williams, P. A., White, G. S., Gaigalas, A. K., Hwang, J. C., **112**(3), 139 (2007).

Y

**Yoon, H. W.**

“Once is Enough” in Radiometric Calibrations. Fraser, G. T., Gibson, C. E., Yoon, H. W., Parr, A. C., **112**(1), 39 (2007).