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Molecular Spectroscopy and Separation Science; Surface Analysis

E131-10(2015) Standard Terminology Relating to Molecular Spectroscopy

E168-16 Standard Practices for General Techniques of Infrared Quantitative Analysis

E169-16 Standard Practices for General Techniques of Ultraviolet-Visible Quantitative Analysis

E260-96(2011) Standard Practice for Packed Column Gas Chromatography

E275-08(2013) Standard Practice for Describing and Measuring Performance of Ultraviolet and Visible Spectrophotometers

E334-01(2013) Standard Practice for General Techniques of Infrared Microanalysis

E355-96(2014) Standard Practice for Gas Chromatography Terms and Relationships

E387-04(2014) Standard Test Method for Estimating Stray Radiant Power Ratio of Dispersive Spectrophotometers by the Opaque Filter Method

E388-04(2015) Standard Test Method for Wavelength Accuracy and Spectral Bandwidth of Fluorescence Spectrometers

E516-95a(2013) Standard Practice for Testing Thermal Conductivity Detectors Used in Gas Chromatography

E573-01(2013) Standard Practices for Internal Reflection Spectroscopy

E578-07(2013) Standard Test Method for Linearity of Fluorescence Measuring Systems

E579-04(2015) Standard Test Method for Limit of Detection of Fluorescence of Quinine Sulfate in Solution

E594-96(2011) Standard Practice for Testing Flame Ionization Detectors Used in Gas or Supercritical Fluid Chromatography

E682-92(2011) Standard Practice for Liquid Chromatography Terms and Relationships

E685-93(2013) Standard Practice for Testing Fixed-Wavelength Photometric Detectors Used in Liquid Chromatography

E697-96(2011) Standard Practice for Use of Electron-Capture Detectors in Gas Chromatography

E840-95(2013) Standard Practice for Using Flame Photometric Detectors in Gas Chromatography

E925-09(2014) Standard Practice for Monitoring the Calibration of Ultraviolet-Visible Spectrophotometers whose Spectral Bandwidth does not Exceed 2 nm

E932-89(2013) Standard Practice for Describing and Measuring Performance of Dispersive Infrared Spectrometers

E958-13 Standard Practice for Estimation of the Spectral Bandwidth of Ultraviolet-Visible Spectrophotometers

E983-10 Standard Guide for Minimizing Unwanted Electron Beam Effects in Auger Electron Spectroscopy

E984-12 Standard Guide for Identifying Chemical Effects and Matrix Effects in Auger Electron Spectroscopy

E995-16 Standard Guide for Background Subtraction Techniques in Auger Electron Spectroscopy and X-Ray Photoelectron Spectroscopy

E996-10 Standard Practice for Reporting Data in Auger Electron Spectroscopy and X-ray Photoelectron Spectroscopy

E1016-07(2012)e1 Standard Guide for Literature Describing Properties of Electrostatic Electron Spectrometers

E1078-14 Standard Guide for Specimen Preparation and Mounting in Surface Analysis

E1127-08(2015) Standard Guide for Depth Profiling in Auger Electron Spectroscopy

E1140-95(2017) Standard Practice for Testing Nitrogen/Phosphorus Thermionic Ionization Detectors for Use In Gas Chromatography

E1151-93(2011) Standard Practice for Ion Chromatography Terms and Relationships

E1162-11 Standard Practice for Reporting Sputter Depth Profile Data in Secondary Ion Mass Spectrometry (SIMS)

E1217-11 Standard Practice for Determination of the Specimen Area Contributing to the Detected Signal in Auger Electron Spectrometers and Some X-Ray Photoelectron Spectrometers

E1252-98(2013)e1 Standard Practice for General Techniques for Obtaining Infrared Spectra for Qualitative Analysis

E1303-95(2017) Standard Practice for Refractive Index Detectors Used in Liquid Chromatography

E1421-99(2015)e1 Standard Practice for Describing and Measuring Performance of Fourier Transform Mid-Infrared (FT-MIR) Spectrometers: Level Zero and Level One Tests

E1438-11 Standard Guide for Measuring Widths of Interfaces in Sputter Depth Profiling Using SIMS

E1449-92(2011) Standard Guide for Supercritical Fluid Chromatography Terms and Relationships

E1504-11 Standard Practice for Reporting Mass Spectral Data in Secondary Ion Mass Spectrometry (SIMS)

E1510-95(2013)e1 Standard Practice for Installing Fused Silica Open Tubular Capillary Columns in Gas Chromatographs

E1511-93(2017) Standard Practice for Testing Conductivity Detectors Used in Liquid and Ion Chromatography

E1523-15 Standard Guide to Charge Control and Charge Referencing Techniques in X-Ray Photoelectron Spectroscopy

E1577-11 Standard Guide for Reporting of Ion Beam Parameters Used in Surface Analysis

E1578-13 Standard Guide for Laboratory Informatics

E1614-94(2013) Standard Guide for Procedure for Measuring Ionizing Radiation-Induced Attenuation in Silica-Based Optical Fibers and Cables for Use in Remote Fiber-Optic Spectroscopy and Broadband Systems

E1634-11 Standard Guide for Performing Sputter Crater Depth Measurements

E1635-06(2011) Standard Practice for Reporting Imaging Data in Secondary Ion Mass Spectrometry (SIMS)

E1636-10 Standard Practice for Analytically Describing Depth-Profile and Linescan-Profile Data by an Extended Logistic Function

E1642-00(2016) Standard Practice for General Techniques of Gas Chromatography Infrared (GC/IR) Analysis

E1653-94(2013) Standard Guide for Specifying Dynamic Characteristics of Optical Radiation Transmitting Fiber Waveguides

E1654-94(2013) Standard Guide for Measuring Ionizing Radiation-Induced Spectral Changes in Optical Fibers and Cables for Use in Remote Raman FiberOptic Spectroscopy

E1655-17 Standard Practices for Infrared Multivariate Quantitative Analysis

E1657-98(2011) Standard Practice for Testing Variable-Wavelength Photometric Detectors Used in Liquid Chromatography

E1683-02(2014)e1 Standard Practice for Testing the Performance of Scanning Raman Spectrometers

E1698-95(2017) Standard Practice for Testing Electrolytic Conductivity Detectors (ELCD) Used in Gas Chromatography

E1747-95(2011) Standard Guide for Purity of Carbon Dioxide Used in Supercritical Fluid Applications

E1790-04(2016)e1 Standard Practice for Near Infrared Qualitative Analysis

E1791-96(2014) Standard Practice for Transfer Standards for Reflectance Factor for Near-Infrared Instruments Using Hemispherical Geometry

E1829-14 Standard Guide for Handling Specimens Prior to Surface Analysis

E1840-96(2014) Standard Guide for Raman Shift Standards for Spectrometer Calibration

E1865-97(2013) Standard Guide for Open-Path Fourier Transform Infrared (OP/FT-IR) Monitoring of Gases and Vapors in Air

E1866-97(2013) Standard Guide for Establishing Spectrophotometer Performance Tests

E1880-12 Standard Practice for Tissue Cryosection Analysis with SIMS

E1881-12 Standard Guide for Cell Culture Analysis with SIMS

E1944-98(2013) Standard Practice for Describing and Measuring Performance of Laboratory Fourier Transform Near-Infrared (FT-NIR) Spectrometers: Level Zero and Level One Tests

E1947-98(2014) Standard Specification for Analytical Data Interchange Protocol for Chromatographic Data

E1948-98(2014) Standard Guide for Analytical Data Interchange Protocol for Chromatographic Data

E1982-98(2013) Standard Practice for Open-Path Fourier Transform Infrared (OP/FT-IR) Monitoring of Gases and Vapors in Air

E2056-04(2016) Standard Practice for Qualifying Spectrometers and Spectrophotometers for Use in Multivariate Analyses, Calibrated Using Surrogate Mixtures

E2077-00(2016) Standard Specification for Analytical Data Interchange Protocol for Mass Spectrometric Data

E2078-00(2016) Standard Guide for Analytical Data Interchange Protocol for Mass Spectrometric Data

E2105-00(2016) Standard Practice for General Techniques of Thermogravimetric Analysis (TGA) Coupled With Infrared Analysis (TGA/IR)

E2106-00(2011) Standard Practice for General Techniques of Liquid Chromatography-Infrared (LC/IR) and Size Exclusion Chromatography-Infrared (SEC/IR) Analyses

E2108-16 Standard Practice for Calibration of the Electron Binding-Energy Scale of an X-Ray Photoelectron Spectrometer

E2143-01(2013) Standard Test Method for Using Field-Portable Fiber Optics Synchronous Fluorescence Spectrometer for Quantification of Field Samples for Aromatic and Polycyclic Aromatic Hydrocarbons

E2310-04(2015) Standard Guide for Use of Spectral Searching by Curve Matching Algorithms with Data Recorded Using Mid-Infrared Spectroscopy

E2382-04(2012) Standard Guide to Scanner and Tip Related Artifacts in Scanning Tunneling Microscopy and Atomic Force Microscopy

E2426-10 Standard Practice for Pulse Counting System Dead Time Determination by Measuring Isotopic Ratios with SIMS

E2529-06(2014) Standard Guide for Testing the Resolution of a Raman Spectrometer

E2617-17 Standard Practice for Validation of Empirically Derived Multivariate Calibrations

E2642-09(2015) Standard Terminology for Scientific Charge-Coupled Device (CCD) Detectors

E2719-09(2014) Standard Guide for Fluorescence—Instrument Calibration and Qualification

E2734/E2734M-10(2018) Standard Specification for Dimensions of Knife-Edge Flanges

E2735-14 Standard Guide for Selection of Calibrations Needed for X-ray Photoelectron Spectroscopy (XPS) Experiments

E2911-13 Standard Guide for Relative Intensity Correction of Raman Spectrometers

E2977-15 Standard Practice for Measuring and Reporting Performance of Fourier-Transform Nuclear Magnetic Resonance (FT-NMR) Spectrometers for Liquid Samples

E3029-15 Standard Practice for Determining Relative Spectral Correction Factors for Emission Signal of Fluorescence Spectrometers