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Altri autori (Persone)	HillStephen J
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Livello bibliografico	Monografia
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Inductively Coupled Plasma Spectrometry and its Applications; Contents; Contributors; Preface; 1 Introduction - A Forward-Looking Perspective; 1.1 Introduction; 1.2 Extrapolation of past and current trends; 1.2.1 Influences from science and technology; 1.2.2 Influences from society, politics, and the economy; 1.2.3 Past and current trends in atomic spectrometry; 1.3 Influence of technology transfer; 1.3.1 Electronics and data manipulation; 1.3.2 Metal-binding structures; 1.3.3 Novel separation methods; 1.3.4 Detector technologies; 1.4 Strengths and weaknesses of ICP-AES and ICP-MS 1.4.1 Strengths and weaknesses of ICP-AES1.4.2 Strengths and weaknesses of ICP-MS; 1.4.3 ICP limitations; 1.5 Potential directions in ICP spectrometry; 1.6 Concluding considerations; References; 2 Fundamental Principles of Inductively Coupled Plasmas; 2.1 Principles to inductively coupled plasma generation; 2.2 Equilibrium in a plasma; 2.3 Line intensities; 2.4 Line profiles; 2.5 Temperature definitions; 2.6 Temperature measurements; 2.6.1 Kinetic temperature measurement;

2.6.2 Rotational temperature measurement; 2.6.3 Excitation temperature; 2.6.3.1 Boltzmann plot; 2.6.3.2 Line pair method
2.6.4 Electron temperature2.7 Electron number density measurement; 2.8 Ionic to atomic line intensity ratio; 2.9 Active methods; 2.9.1 Laser-induced fluorescence; 2.9.2 Light scattering; 2.10 Spatial profiles; 2.11 Temperature and electron number densities observed in analytical ICPs; 2.12 Plasma perturbation; 2.13 Multiline diagnostics; References; 3 Basic Concepts and Instrumentation for Plasma Spectrometry; 3.1 Detection limits and sensitivity; 3.1.1 ICP-Atomic emission spectrometry; 3.1.2 Limits of detection; 3.1.3 Axial systems; 3.1.4 The sample introduction system; 3.1.5 Detectors
3.2 Accuracy and precision3.2.1 Instrumental drift; 3.2.2 Matrix effects; 3.2.3 Plasma effects; 3.2.4 Spectral effects, interferences and background correction; 3.2.5 Dynamic range; 3.2.6 ICP-MS; 3.3 Multi-element capability and selectivity; 3.4 Instrumental overview; 3.5 Radio-frequency generators; 3.6 Torches; 3.7 Spectrometers; 3.7.1 Line isolation; 3.7.2 Monochromators; 3.7.3 Polychromators; 3.8 Detectors; 3.8.1 Photomultiplier tubes; 3.8.2 Solid-state detectors; 3.9 Nebulisers and spray chambers; 3.10 Read-out devices, instrument control and data processing; 3.11 Radial and axial plasmas
3.12 Instrumentation for high-resolution spectrometry3.13 Micro-plasmas and plasma on a chip; References; 4 Aerosol Generation and Sample Transport; 4.1 Introduction; 4.2 Sample introduction characteristics of the ICP source; 4.2.1 Particle size distribution; 4.2.2 Plasma loading; 4.3 Liquid aerosol generation; 4.3.1 Pneumatic nebulization; 4.3.1.1 Pneumatic nebulizer designs; 4.3.1.2 Ultrasonic nebulizers; 4.3.1.3 Alternative nebulizer designs; 4.3.2 Spray chambers; 4.3.2.1 Mode of operation; 4.3.2.2 Practical designs of spray chambers; 4.3.2.3 Desolvation; 4.3.3 Chromatographic interfaces
4.4 Vapour generation

Sommario/riassunto

The first edition of Inductively Coupled Plasma Spectrometry and its Applications was written as a handbook for users who wanted a better understanding of the theory augmented by a practical insight of how best to approach a range of applications, and to provide a useful starting point for users trying an approach or technique new to them. These objectives have been retained in the second edition but a slight shift in emphasis gives the volume an overall perspective that is more forward looking.Structured into 11 chapters, the current edition is a thorough revision of the original, cov

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Autore	Freminville Marie de
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Sommario/riassunto	Cyber security is a key issue affecting the confidence of Internet users and the sustainability of businesses. It is also a national issue with regards to economic development and resilience. As a concern, cyber risks are not only in the hands of IT security managers, but of everyone, and non-executive directors and managing directors may be held to account in relation to shareholders, customers, suppliers, employees, banks and public authorities. The implementation of a cybersecurity system, including processes, devices and training, is essential to protect a company against theft of strategic and personal data, sabotage and fraud. Cybersecurity and Decision Makers presents a comprehensive overview of cybercrime and best practice to confidently adapt to the digital world; covering areas such as risk mapping, compliance with the General Data Protection Regulation, cyber culture, ethics and crisis management. It is intended for anyone concerned about the protection of their data, as well as decision makers in any organization.