International Association of Geoanalysts

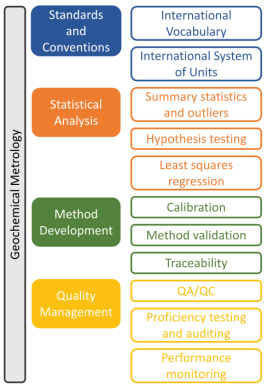
http://geoanalyst.org

GGR HANDBOOK OF ROCK AND MINERAL ANALYSIS

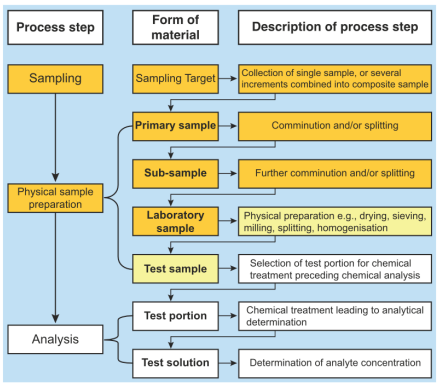
Geostandards and Geoanalytical Research (*GGR*), the official journal of the International Association of Geoanalysts, has recently launched a new publishing initiative: the 'Handbook of Rock and Mineral Analysis', which should be of interest to many *Elements* subscribers.

This Handbook is a fully revised and updated edition of 'A Handbook of Silicate Rock Analysis' (Blackie, Glasgow), originally written by Philip J. Potts and published in 1987. Like the first edition, it aims to provide a comprehensive guide to the theory, instrument design and optimisation, performance and application of techniques available for the measurement of the major, trace, and isotopic composition of rocks and minerals.

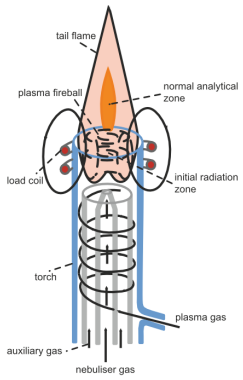
New chapters of the ***Handbook of Rock and Mineral Analysis*** now available in *Geostandards and Geoanalytical Research*



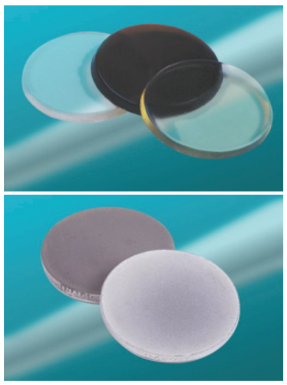
Chapter 1 (part 1): Geoanalytical Metrology



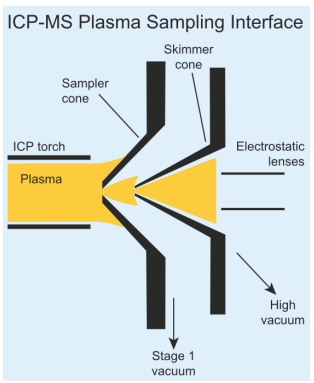
Chapter 1 (part 2): Sampling as Part of the Measurement Process



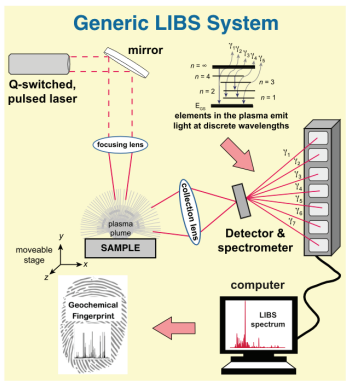
Chapter 5: The Inductively Coupled Plasma



Chapter 6 (part 1): Principles and Practice of X-Ray Fluorescence Spectrometry



Chapter 7: Quadrupole Inductively Coupled Plasma-Mass Spectrometry



Chapter 13: Laser-Induced Breakdown Spectroscopy (LIBS)

The collection, edited by Philip Potts, Kathryn Linge, Dieter Garbe-Schönberg, Philip Robinson, and Matthew Horstwood, is planned to consist of 21 chapters organised in four thematic sections:

a. Fundamentals of measurement and instrument design;

b. Techniques for the determination of major and trace elements;

c. Microbeam techniques; and

d. Techniques for age determination and isotope ratio measurement

Rather than releasing a complete volume at once, chapters will be published individually in *GGR* as they become available. In addition, they will be available as a virtual collection on the Wiley Online Library platform (visit onlinelibrary.wiley.com/doi/10.1111/ggr.12585 for an editorial introducing the project). So far, the following chapters have been published:

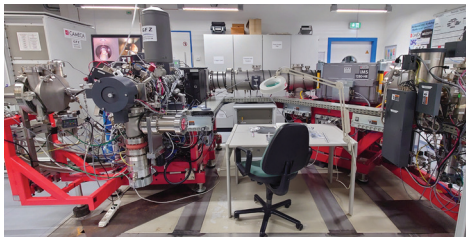
- *Geoanalytical Metrology* by Kathryn L. Linge and Philip J. Potts
- *Sampling as Part of the Measurement Process* by Michael H Ramsey
- *The Inductively Coupled Plasma* by Kathryn L. Linge
- *Principles and Practice of X-Ray Fluorescence Spectrometry – 1: Fundamentals of XRF and Matrix Corrections* by Kenneth E. Turner and Elizabeth Webber
- *Quadrupole Inductively Coupled Plasma-Mass Spectrometry* by Kathryn L. Linge
- *Laser-induced Breakdown Spectroscopy (LIBS)* by Russell S. Harmon and Giorgio S. Senesi

As part of the package of membership benefits, IAG members are able to access *GGR* online at no cost—one very good reason for becoming a member!

SIMS COURSE 1–5 SEPTEMBER 2025

The IAG is once again sponsoring a short course entitled *Introduction to Secondary Ion Mass Spectrometry in the Earth Sciences*. The course will be run by Dr Michael Wiedenbeck at the SIMS Laboratory at the GFZ Helmholtz Centre for Geosciences in Potsdam, Germany.

This course is designed for PhD students and researchers who have little or no experience in the field of SIMS technology. It will cover fundamentals of vacuum technology, theory of secondary ion generation and matrix effects, data assessment, and realistic assessment of the strengths and limitations of SIMS.



There is no charge for course participation; however, participants will need to cover their own travel and accommodation costs while in Potsdam. Those interested in registering for the SIMS short course should download and complete the pdf form available at https://sims.gfz.de/short-course/ and send it to the workshop leader.