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EARTH SCIENCES

**ISOTOPIC AND CHEMICAL TECHNIQUES
IN GEOTHERMAL EXPLORATION,
DEVELOPMENT AND USE: SAMPLING METHODS,
DATA HANDLING, INTERPRETATION**

⇒ **NEW**

This publication, edited by Stéfan Arnórsson, is designed as an instructional manual of essential nuclear and complementary methodologies for a multidisciplinary approach to geothermal exploration development and monitoring. It provides comprehensive procedures for carrying out isotope and geochemical investigations of geothermal systems, i.e. sampling, analysis and data interpretation. It should be a valuable source of information for geoscientists working in geothermal but also for those working in cold water projects, due to the similarity of methods and principles of investigations applied.

Contents: 1. Introduction; 2. Strategy in geothermal exploration, development and production; 3. Chemical reactions and chemical equilibria; 4. Reactive and conservative components; 5. Isotopes for geothermal investigations; 6. The source of chemical and isotopic components in geothermal fluids; 7. Geothermal manifestations and hydrothermal alteration; 8. Sampling of geothermal fluids: On-site measurements and sample treatment; 9. Presentation of analytical results, analytical precision and accuracy; 10. Geothermometry; 11. Mixing processes in upflow zones and mixing models; 12. Assessment of reservoir fluid composition from wet steam well data; 13. Hydrogen and oxygen isotopic fractionation during boiling; 14. Mineral saturation; 15. Estimation of aquifer steam fraction; 16. Monitoring of reservoir response to production.

STI/PUB/1086 (351 pp., 73 figures, 14.85 × 21 cm; 2000)

ISBN 92-0-101600-X

Price: 1070 Austrian schillings (€77.76)

Uranium Geology, Exploration and Mining

ANALYSIS OF URANIUM SUPPLY TO 2050

⇒ **NEW**

This report contains the first IAEA projection of uranium supply and demand to 2050 and provides the reader with an understanding

of how some alternative uranium supply scenarios could evolve over this period. The analysis is based on the current knowledge of uranium resources and production facilities, and takes into account the premise that they can operate with minimal environmental impact and employ the best practices in planning, operations, decommissioning and closure. It is assumed that the most economic production technology is used. The report is based on published projections of uranium requirements covering a wide range, from a very low to a very high level, of utilization of nuclear power.

Contents: Summary; 1. Introduction; 2. Scope of study; 3. Methodology and assumptions; 4. Analysis; 5. Conclusions; Appendix I. IASA/WEC study; Appendix II. Economic model for tails re-enrichment; Appendix III: Review of worldwide uranium production industry; Appendix IV: International Uranium Resources Evaluation Project (IUREP); Appendix V: Resource definitions and terminology; References; Glossary.

STI/PUB/1104 (103 pp., 36 figures; 21 × 30 cm; 2001)

ISBN 92-0-100401-X

Price: 370 Austrian schillings (€26.89)

**ANALYTICAL TECHNIQUES IN URANIUM
EXPLORATION AND ORE PROCESSING
Technical Reports Serles No. 341**

The purpose of this manual is to assist in the establishment of an analytical laboratory able to perform all the basic chemical and instrumental analyses commonly used in conjunction with uranium exploration, and mining and ore processing activities, including the development of hydrometallurgical processes. It is intended for chemists with a general background in analytical chemistry, but with limited experience in the analytical chemistry of uranium and of related elements.

Contents: Introduction; Part I. General aspects of laboratory operation; Chapter 1. Uranium exploration; Chapter 2. Analytical requirements in uranium ore processing and process development; Chapter 3. Analytical chemistry of uranium; Chapter 4. The uranium analytical laboratory; Chapter 5. Sample preparation; Chapter 6. Calibration methods and quality control in the uranium analytical laboratory; Chapter 7. Statistical techniques for chemical analysis and process control; References; Part II. Analytical methods: Method 1. Analytical procedures for fluorometric determination of labile uranium; Method 2. Determination of uranium in water using a scintrex UA-3 uranium analyser; Method 3. Determination of uranium in geological materials by fluorometry; Method 4. Determination of uranium, thorium and potassium by gamma ray spectrometry; Method 5. Uranium determination by the fission track method; Method 6. Determina-

tion of uranium by delayed neutron counting (DNC); Method 7. Determination of uranium in ores, rocks and mineral processing solutions by XRF analysis; Method 8. Determination of uranium in ores and other samples by UV/VIS spectrophotometry; Method 9. Determination of uranium (U_3O_8) in uranium mill products and ores by the lead reduction method; Method 10. Atomic emission spectroscopy methods for measurement of impurities in uranium; Method 11. Determination of molybdenum in ore samples and uranium mill products; Method 12. Determination of titanium (TiO_2) by UV/VIS spectrometry; Method 13. Determination of vanadium in uranium ores and uranium mill products by volumetric titration; Method 14. Ammonia determination in uranium process solutions; Method 15. Analysis of mill process solutions for the ferrous/ferric iron ratio, silicon and phosphorus by various analytical techniques; Method 16. Nitrate and sulphate determinations in uranium process solutions by ion chromatography; Method 17. Determination of radium-226 in solid and liquid samples by alpha spectrometry; Appendix 1: Techniques used for uranium determination and those used for determinations other than uranium; Appendix 2: Laboratory safety.

STI/DOC/010/341 (187 pp., 14 figures; 1992)

ISBN 92-0-103792-9

Price: 600 Austrian schillings (€43.60)

**HANDBOOK ON NUCLEAR DATA FOR BOREHOLE LOGGING
AND MINERAL ANALYSIS**
Technical Reports Series No. 357

This handbook is a compendium of nuclear data to be used for neutron borehole logging and neutron activation analysis of mineral samples, meeting the major requirements of the nuclear geophysics community for microscopic cross-section and decay data.

Contents: Chapter 1. Introduction; Chapter 2. Table of nuclides; Chapter 3. Prompt gamma rays from thermal neutron capture — Extracted from the database; Chapter 4. Nuclear decay gamma rays with intensities higher than 5% — An extract from the ENSDF radioactivity database; Chapter 5. Spectra of neutron sources; Chapter 6. Neutron induced reaction cross-section data for nuclides required for borehole logging and mineral analysis; Chapter 7. Neutron source averaged cross-sections.

STI/DOC/010/357 (231 pp. + 1 diskette containing approx. 100 pp.,

78 figures; 1993)

ISBN 92-0-102393-6

Price: 1000 Austrian schillings (€72.67)

**METHODS FOR THE ESTIMATION AND ECONOMIC
EVALUATION OF UNDISCOVERED URANIUM
ENDOWMENT AND RESOURCES: An Instruction Manual
Technical Reports Serles No. 344**

The present manual is part of the IAEA's programme on guides on uranium resource assessment and supply. Its purpose is to describe methods of making numerical estimates of undiscovered uranium endowment and of the economic potential of the uranium resources. It provides guidance on choosing the method(s) most applicable to a given situation.

Contents: 1. Introduction; 2. Geological analogy principles; 3. Control areas; 4. Approaches to estimation of endowment; 5. Probability considerations; 6. Limited information and subjective probability; 7. Deposit density methods; 8. Mineralized rock density methods; 9. Crustal abundance methods; 10. Economic potential evaluation; 11. Criteria for method selection; 12. Utilization of resource estimates; Appendix I: Glossary; Appendix II: Selected control area descriptions and gradetonnage curves; Appendix III: Case studies.

STI/DOC/010/344 (145 pp., 24 figures; 1992)
ISBN 92-0-104092-X
Price: 480 Austrian schillings (€34.88)

**NUCLEAR GEOPHYSICS AND
ITS APPLICATIONS
Technical Reports Serles No. 393**

→ **NEW**

This report aims at providing background information and a comprehensive account of the nature of nuclear geophysics, its fundamentals, its objectives, its tools for investigation and its wide range of applications benefiting society and industry. It reviews the achievements and performance of nuclear geophysical measurements, particularly in applications to mining, industry and agriculture. It also analyses many of these important applications for their economic impact and updates the available information on nuclear geophysics by giving an account of the most relevant achievements and concepts introduced during recent years.

Contents: 1. Introduction; 2. Fundamentals of nuclear physics; 3. Parameters obtained by nuclear techniques; 4. Measurement methods; 5. Interpretation; 6. Impact of new technology.

STI/DOC/010/393 (200 pp., 42 figures; 1999)
ISBN 92-0-100699-3
Price: 680 Austrian schillings (€49.42)

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**NUCLEAR TECHNIQUES IN THE EXPLORATION AND
EXPLOITATION OF ENERGY AND MINERAL RESOURCES
Proceedings Series**

Proceedings of a symposium, Vienna, 5–8 June 1990. Over the past few decades, many nuclear techniques have been developed and used on an industrial scale for the exploration and exploitation of energy and mineral resources, resulting in great technical and economic benefits. The major nuclear techniques which are currently employed on a large scale include nucleonics control and on-stream analysis, nuclear well logging and tracer investigations. The advantages of nuclear techniques include rapidity, relative simplicity of use and, in some cases, the possibility of use in hostile environments where no other methods can be used. Furthermore, nuclear measurements and nucleonics control can be made by non-contact processes. The purpose of the symposium was to review the latest concepts and developments and to foster an exchange of information leading to technology transfer from developed to developing countries.

Contents: Nucleonics control systems and on-stream analysers in the coal industry; On-line nuclear and nuclear related analytical techniques in the mineral industry; Nucleonics control systems and on-stream mineral analysers; Nuclear borehole logging applications; Nuclear borehole logging instrumentation, data processing and interpretation; Tracer techniques and radiometric methods in the mineral industry; Off-line nuclear activation analysis in the mineral industry; Summary of the panel discussion: Nuclear and nuclear related techniques in the mineral industry — trends and future perspectives.

STI/PUB/841 (627 pp., 207 figures; 1991)

ISBN 92-0-060091-3

Price: 1660 Austrian schillings (€120.64)

**URANIUM EXTRACTION TECHNOLOGY
Technical Reports Series No. 359**

The purpose of this publication is to update and expand the first edition, which was published in 1983, and to report on advances in uranium ore processing which have taken place since. It includes background information about the principles of the unit operations used in uranium ore processing and summarizes the current state of the art. It also seeks to preserve the technology and the operating 'know-how' developed over the past ten years. Extensive references provide sources for specific technological details.

Contents: Introduction; Part I. Uranium resources and mining technology; Chapter 1. Uranium resources; Chapter 2. Mining technology; Part II. Processing technology; Chapter 3. Processing concepts; Chapter 4. Ore preparation; Chapter 5. Leaching;

Chapter 6. Solid-liquid separation; Chapter 7. Solution purification; Chapter 8. Product recovery; Chapter 9. By-products; Part III. Waste management and the environment; Chapter 10. Tailings management technology; Part IV. Flow sheet examples; Chapter 11. Olympic Dam; Chapter 12. Key Lake; Chapter 13. Rabbit Lake; Chapter 14. Lodève; Chapter 15. Rossing; Chapter 16. Cominak; Chapter 17. White Mesa; Chapter 18. Rosita (in situ leaching).

STI/DOC/010/359 (358 pp., 77 figures; 1993)

ISBN 92-0-103593-4

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WORLD DISTRIBUTION OF URANIUM DEPOSITS

This is the first ever geological map of the world's uranium deposits at a scale of 1:30 000 000. It provides information on potential economic uranium deposits containing more than 500 metric tonnes of uranium with an average grade greater than 0.03% uranium. The geological settings and locations of 590 uranium deposits meeting the minimum criteria are shown. Shape, colour and size of symbols on the map indicate the deposit type, operational status and size. The names of the reported uranium deposits are listed in the legend. It is the most comprehensive compilation of relevant information ever published and includes previously unavailable information on uranium deposits in eastern Europe and the former Soviet Union, as well as in China.

The maps are available folded or rolled.

STI/PUB/997/FO (1995)

ISBN 92-0-004095-0

Price: 200 Austrian schillings (€14.53)

STI/PUB/997/RO (1995)

ISBN 92-0-004095-0

Price: 250 Austrian schillings (€18.17)

Hydrology

HYDROGEOLOGICAL INVESTIGATION OF SITES FOR THE GEOLOGICAL DISPOSAL OF RADIOACTIVE WASTE

→ **NEW**

Technical Reports Series No. 391

This report, which has been prepared as part of the IAEA programme on radioactive waste disposal, discusses the approaches used in the hydrogeological investigation of repository

sites. It is based on experience gained in Member States on those rock types considered as having the potential to host a repository.

Contents: 1. Introduction; 2. Geological disposal of radioactive waste; 3. Function of the geological barrier in a disposal system; 4. Focusing hydrogeological investigations; 5. Hydrogeological issues in disposal systems; 6. Approaches to characterization of the hydrogeological system; 7. Summary.

STI/DOC/010/391 (60 pp., 7 figures; 1999)

ISBN 92-0-100299-8

Price: 280 Austrian schillings (€20.35)

**ISOTOPE TECHNIQUES IN THE STUDY
OF ENVIRONMENTAL CHANGE**
Proceedings Series

Proceedings of a symposium on Isotope Techniques in the Study of Past and Current Environmental Changes in the Hydrosphere and the Atmosphere, Vienna, 14–18 April 1997. The symposium was structured in five sessions of oral presentations, a poster session and a round table discussion that focused on trends and future requirements in isotope hydrology and on applications in climate and environmental research. The major themes covered by the presentations included the use of isotopic tracers in studies of atmospheric and hydrospheric changes and of human impacts on water and the environment. Special emphasis was placed on isotopic archives of climatic and environmental change. Some contributions addressed new technical approaches.

Contents: Opening session; Isotopic tracers of the atmosphere; Isotopic tracers of the hydrosphere; Isotopic studies of man-made hydrological impact; Isotopic archives of climatic and environmental change; New technical approaches; Poster session.

STI/PUB/1024 (932 pp., 334 figures; 1998)

ISBN 92-0-100598-9

Price: 2720 Austrian schillings (€197.67)

**ISOTOPE TECHNIQUES IN THE STUDY OF PAST
AND CURRENT ENVIRONMENTAL CHANGES
IN THE HYDROSPHERE AND THE ATMOSPHERE**
Proceedings Series

Proceedings of a symposium, Vienna, 19–23 April 1993. Natural isotopes are among the most powerful tools for investigating past and current environmental changes. In particular, stable isotopes have proved to be very useful proxy indicators of climate related parameters such as surface air temperature, relative humidity of the atmosphere and amount of precipitation, whereas radioactive

isotopes are widely used as a dating tool. The release of radionuclides during nuclear bomb tests permitted studies of the dynamics of transport and mixing processes in the atmosphere. It also allowed a global tracer experiment on the hydrological and carbon cycles, which substantially contributed to better understanding of these two vital compartments of the global ecosystem. A wide spectrum of themes was discussed at the symposium, covering both the 'present' and the 'past' of the global atmosphere/hydrosphere system. Case studies as well as methodological aspects of various isotope techniques applied in both areas of research were presented.

Contents: Isotopes in atmospheric studies; Isotopes in the soil-plants-atmosphere system; Degradation of water resources; Palaeohydrology and palaeowaters; Isotope indicators of climatic changes; Poster presentations.

STI/PUB/908 (623 pp., 190 figures; 1993)

ISBN 92-0-103293-5

Price: 1740 Austrian schillings (€126.45)

**ISOTOPE TECHNIQUES IN WATER
RESOURCES DEVELOPMENT 1991
Proceedings Series**

Proceedings of a symposium organized in co-operation with UNESCO, Vienna, 11-15 March 1991. The main themes were the use of isotope techniques in solving practical problems of water resources assessment and development, particularly with respect to groundwater protection, and in studying environmental problems related to water, including the palaeohydrological and palaeoclimatological aspects. The oral presentations were largely concerned with the current status and trends in groundwater dating. The proceedings contain the papers of 37 oral and the extended synopses of 47 poster presentations.

Contents: Interface processes between the atmosphere and the hydrosphere; Surface water and sediments; Groundwater dating: Problems and new approaches; Groundwater dating: Problems and new approaches — methodological aspects and models; Groundwater; Environmental problems and water pollution; Palaeohydrology and palaeoclimatology; Poster presentations.

STI/PUB/875 (789 pp., 273 figures; 1992)

ISBN 92-0-000192-0

Price: 2100 Austrian schillings (€152.61)

ISOTOPES IN WATER RESOURCES MANAGEMENT
Proceedings Series

Proceedings of a symposium organized in co-operation with UNESCO and held in Vienna, 20–24 March 1995. The main topics addressed were water resources management, with emphasis on origin and recharge of groundwater, groundwater dynamics and pollution, modelling approaches and geothermal and palaeowater resources. The remaining discussions were concerned with surface water and sediments, unsaturated zones and methodological aspects. The proceedings contain the papers of 43 oral presentations and the extended synopses of over 100 poster presentations.

Contents: (Vol. 1) Recent developments; Surface water and sediments; Unsaturated zones; Origin and recharge of groundwater; (Vol. 2) Dynamics of groundwater; Groundwater pollution; Modelling approaches; Geothermal and palaeowaters.

STI/PUB/970 (Vol. 1: 463 pp., 185 figures; Vol. 2: 530 pp., 237 figures; 1996)

1: ISBN 92-0-105595-1

2: ISBN 92-0-100796-5

Price: Vol. 1: 1360 Austrian schillings (€98.84)

Vol. 2: 1520 Austrian schillings (€110.46)

STATISTICAL TREATMENT OF DATA ON
ENVIRONMENTAL ISOTOPES IN PRECIPITATION
Technical Reports Series No. 331

This publication contains a statistical evaluation of isotope and meteorological data accumulated during three decades of operation of the global network, Isotopes in Precipitation, jointly operated by the IAEA with the WMO. Monthly precipitation samples and meteorological data have been collected by the meteorological services of more than eighty countries. For each of the 180 stations selected for statistical treatment, numerical data and graphs are presented, illustrating the most characteristic features of the accumulated isotope database.

Contents: Introduction; Statistical data; Data summary; Numerical station index; Alphabetical station index; Laboratories which have co-operated or are co-operating in the IAEA/WMO network.

STI/DOC/10/331 (781 pp., 597 figures; 1992)

ISBN 92-0-100892-9

Price: 2100 Austrian schillings (€152.61)

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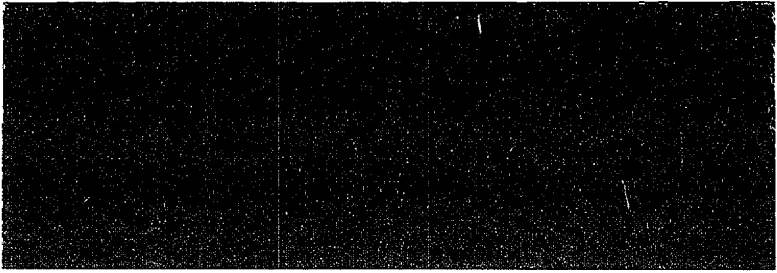
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