



**The Abdus Salam
International Centre for Theoretical Physics**



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Joint ICTP-IAEA School of Nuclear Knowledge Management

1 - 5 September 2008

Introduction to INIS and INIS Demonstration

A. PRYAKHIN

*IAEA, Nuclear Power Engineering Section,
Wagramerstrasse 5, P.O. Box 100
A-1400 Vienna
AUSTRIA*

INIS Demonstration

(D3.18.2)

Andrey Pryakhin



IAEA

International Atomic Energy Agency

INIS Online Database - [IP-range] - Mozilla Firefox

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http://inisdb.iaea.org/inis/php/index.php

IAEA.org
International Atomic Energy Agency

19 September 2007

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Release 1.5.1

Query 1 [Combine queries](#)

Any field all

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News

New on the INIS Online Database

Version 1.5.0 of the INIS Online Database has been released on 22 March 2007. It is the result of reviewing and optimizing the code base and offers several enhanced features. The loading time has been shortened due to the reduced size of data during loading. The storing of queries has been optimized. Any queries stored by users were converted to the new format. If you encounter any problems with your stored queries, please contact us. Read more about all new features and fixes in the [Release Notes](#). Please share your comments with the INIS user community on our discussion forum.

Recent Statistics and Predefined Queries

The last update corresponds to volume and issue 38/37, was made on 12 September 2007 and includes [3039 records](#), of which [149 are NCL documents](#) and [128 contain PDF full-text documents](#) available for download.

Their main subject distribution is as follows:

- 753 [CONDENSED MATTER PHYSICS, SUPERCONDUCTIVITY AND SUPERFLUIDITY](#)
- 502 [MATERIALS SCIENCE](#)
- 344 [CLASSICAL AND QUANTUM MECHANICS, GENERAL PHYSICS](#)
- 312 [PHYSICS OF ELEMENTARY PARTICLES AND FIELDS](#)
- 235 [ATOMIC AND MOLECULAR PHYSICS](#)
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- 173 [NUCLEAR PHYSICS AND RADIATION PHYSICS](#)
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- 30 [MANAGEMENT OF RADIOACTIVE WASTES, AND NON-RADIOACTIVE WASTES FROM NUCLEAR FACILITIES](#)
- 29 [RADIATION PROTECTION AND DOSIMETRY](#)
- 26 [PLASMA PHYSICS AND FUSION TECHNOLOGY](#)

There are [2774 newly added journal articles](#) and they belong most frequently to these journals:

- 498 [Applied Surface Science](#)
- 399 [Journal of Physics, D: Applied Physics](#)
- 356 [Nuclear Physics. A](#)
- 286 [Materials Science and Engineering. B. Solid State Materials for Advanced](#)

Introducing the INIS Online DB Discussion Forum

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Done

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- 250 [Chemical Physics](#)
- 201 [Physica. B, Condensed Matter](#)
- 87 [Journal of Mathematical Physics](#)
- 70 [Physical Review. D, Particles Fields](#)
- 68 [Annals of Nuclear Energy \(Oxford\)](#)
- 67 [Applied Optics](#)
- 64 [Nuclear Electronics and Detection Technology](#)
- 56 [Nuclear Engineering and Design](#)
- 51 [Polish Journal of Radiology](#)
- 40 [European Journal of Nuclear Medicine and Molecular Imaging](#)
- 31 [Nowotwory](#)

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Query 1 [Combine queries](#)

Limit to all

e database 10

- Any field
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- Author(s)
- Corporate Author
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- Descriptors
- DEC (computer-assigned)
- DEI (indexer assigned)
- Language
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- Qualifiers
- Reference Number
- Source
- Document Type
- Identifiers (ISBN, ISSN, etc.)
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- Report/Patent
- Subject
- Text
- Title

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> Performance
Query: n/a
Download: n/a

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Query 1 [Combine queries](#)

Any field + -
Limit to records with full text Entire Show 10

any
all
phrase
in order

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> Performance
 Query: 7.266
 Download: 3.499

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Query 1 [Combine queries](#)

Any field all uranium isotopes

Limit to records with full text Entire database Show

- Any field all uranium,isotopes**
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- [Delete query](#) [Store query](#) [New query](#) [Replicate query](#) [E-mail query](#)
- First | [Previous](#) | [Next](#) | [Last](#) sort by:
- Apply to all records.
- 1 [Inquiry into the radiological consequences of power uprates at light-water reactors worldwide](#)
 - 2 [Radiolysis studies of uranyl nitrate solution in nitric acid medium Estudio de la radiolisis de soluciones de nitrato de uranilo en medio nitrico](#)
 - 3 [Spatial Variations of the Isotopic Concentrations in a Fuel Rod](#)
 - 4 [Comparison Between Calculated and Measured Cross Section Changes in Natural **Uranium** Irradiated in NRX](#)
 - 5 [Sources of gamma radiation in a reactor core](#)
 - 6 [¹³⁷Cs and ²¹⁰Pb dating](#)
 - 7 [Neutron emission in fission](#)
 - 8 [The \(t,³He\) and \(³He,t\) reactions as complementary probes of the spin-isospin response of nuclei](#)
 - 9 [Spectroscopy of neutron-rich Pd and Cd **isotopes** near A=120](#)
 - 10 [Confirmation of the Decay of ²⁸³112 and First Indication for Hg-like Behavior of Element 112](#)

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Any field all uranium,isotopes

From 1 to 10 of 41345

[Delete query](#) | [Store query](#) | [New query](#) | [Replicate query](#) | [E-mail query](#)

First | Previous | [Next](#) | [Last](#) sort by: None | Asc. | [sort](#)

Apply to all records.

1 [Inquiry into the radiological consequences of power uprates at light-water reactors worldwide](#)

In Sweden, most of the nuclear power plants are planning power uprates within the next few years. The Dept. of Occupational and Medical Exposures at the Swedish Radiation Protection Agency, SSI, has initiated a research project to investigate the radiological implications of power uprates on light-water reactors throughout the world. The project was divided into three tasks: 1. A compilation of power uprates of light-water reactors worldwide. The compilation contains a technical description in brief of how the power uprates were carried out. 2. An analysis of the radiological consequences at four selected Nuclear Power Plants, which was the main objective of the inquiry. Affects on the radiological and chemical situation due to the changed situation were discussed. 3. Review of technical and organisational factors to be considered in uprate projects to keep exposures ... >>>

Author Bilic Zabrc, Tea; Tomic, Bojan; Lundgren, Klas; Sjoeborg, Mats
 Swedish Radiation Protection Authority, Stockholm (Sweden)

Subject [GENERAL STUDIES OF NUCLEAR REACTORS](#) | [S22](#) |

Source May 2007 176 p
 Available from INIS in electronic form; Also available from: http://www.ssi.se/downloadDoc.asp?document=http://www.ssi.se/ssi_rapporter/pdf=/ssi_rapp_2007_7.pdf
 ISSN 0282-4434
 SSI--2007-07 {[SSI200707](#)}
 24 refs., 85 figs., 10 tabs
 Report

Place [Sweden](#)

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DEI [alara](#) | [bwr type reactors](#) | [electric power](#) | [nuclear power plants](#) | [occupational exposure](#) | [pwr type reactors](#) | [radiation hazards](#) | [radiation protection](#) | [reactor safety](#) | [safety margins](#) | [sweden](#) | [tritium](#)

Lang [English](#)

RefNum [38088544](#)

VolIss [3837](#)

Year [2007](#)

2 [Radiolysis studies of uranyl nitrate solution in nitric acid medium Estudio de la radiolisis de soluciones de nitrato de uranilo en medio nitrico](#)

The radiolysis of acidic uranyl nitrate solutions was investigated using Co-60 gamma radiation. Hydrogen peroxide was determined as a function of increasing dose. The UV-vis absorption spectra of the irradiated solutions were measured and the spectral changes were analyzed. The increasing dose increases the absorbance intensities, possibly by an increment in nitrate concentration produced by radiolysis, which can originate the formation of different uranyl complexes in solution. (author)

Author Siri, Sandra; Mondino, Angel V. (Comision Nacional de Energia Atomica, Ezeiza (Argentina), Dept. de Radioquimica y Quimica de las Radiaciones)

Subject [RADIATION CHEMISTRY, RADIOCHEMISTRY AND NUCLEAR CHEMISTRY](#) | [S38](#) |

Source Buenos Aires (Argentina) AATN 2005 8 p
 Available from INIS in electronic form
 INIS-AR-C--486 {[INISARC486](#)}
 AATN 2005: 32. Annual meeting of the Argentine Association of Nuclear Technology Buenos Aires (Argentina) 21-25 Nov 2005 AATN 2005: 32. Reunion anual de la Asociacion Argentina de Tecnologia Nuclear (AATN)
 This preprint will be published as 'Actas AATN 2005'; 12 refs., 8 figs
 Miscellaneous

Qualif [Conference](#)

Place [Argentina](#)

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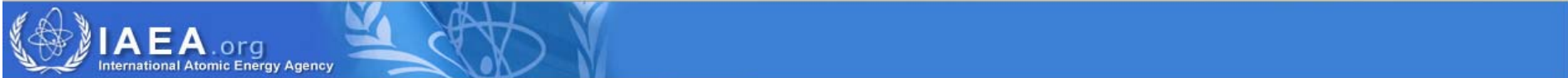
DEI [cobalt 60](#) | [gamma radiation](#) | [hydrogen peroxide](#) | [radiation chemistry](#) | [radiolysis](#) | [uranyl nitrates](#)

Lang [Spanish](#)

RefNum [38088421](#)

VolIss [3837](#)

Year [2005](#)



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Performance
Query: 1.517
Download: 3.53

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Query 1 [Combine queries](#)

- DEC (computer-assigned) all uranium isotopes Authority

Limit to records with full text Entire database Show 10 Search Clear

- DEC (computer-assigned) all uranium,isotopes

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[Delete query](#) [Store query](#) [New query](#) [Replicate query](#) [E-mail query](#)

First | Previous | [Next](#) | [Last](#) sort by: None Asc. sort

- Apply to all records.
- [Inquiry into the radiological consequences of power uprates at light-water reactors worldwide](#)
 - [Radiolysis studies of uranyl nitrate solution in nitric acid medium Estudio de la radiolisis de soluciones de nitrato de uranilo en medio nitrico](#)
 - [Spatial Variations of the Isotopic Concentrations in a Fuel Rod](#)
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 - [Confirmation of the Decay of ²⁸³112 and First Indication for Hg-like Behavior of Element 112](#)
 - [Fusion reaction of halo nuclei : A real-time wave-packet method for three-body tunneling dynamics](#)

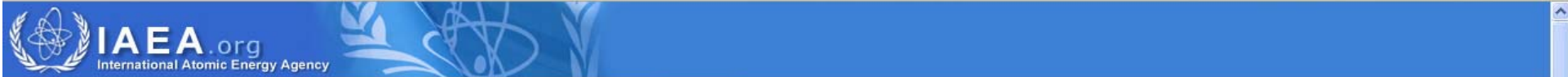
- DEC (computer-assigned)

URANIUM ISOTOPES [Search](#)

First | Previous | Next | Last

Expand all terms.

- URANIUM ISOTOPES (18504)
 - BT ISOTOPES (420982)
 - NT URANIUM 218 (0)
 - URANIUM 219 (0)
 - URANIUM 222 (0)
 - URANIUM 223 (0)
 - URANIUM 224 (0)
 - URANIUM 225 (0)
 - URANIUM 226 (0)
 - URANIUM 227 (0)
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 - URANIUM 241 (0)
 - URANIUM 242 (0)
 - URANIUM MILLS (0)
 - USE FEED MATERIALS PLANTS (410)
 - URANIUM MINERALS (1205)
 - UF EUXENITE (0)
 - URANOPILITE (0)
 - BT RADIOACTIVE MINERALS (3870)
 - NT AUTUNITE (0)
 - BASSETITE (0)
 - BECQUERELITE (0)
 - BILLIETITE (0)
 - BRANNERITE (0)
 - CARNOTITE (0)
 - CLARKEITE (0)



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FEEDBACK

Performance
Query: 1.261
Download: 1.364

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Query 1 Query 2 Combine queries

- DEC (computer-assigned) phrase URANIUM ISOTOPES Authority

Limit to records with full text Entire database Show 10 Search Clear

- DEC (computer-assigned) phrase URANIUM ISOTOPES

From 1 to 10 of 18504

Delete query Store query New query Replicate query E-mail query

First Previous Next Last sort by: None Asc. sort

Apply to all records.

- Spatial Variations of the Isotopic Concentrations in a Fuel Rod
- Sources of gamma radiation in a reactor core
- Neutron emission in fission
- Spectroscopy of neutron-rich Pd and Cd isotopes near A=120
- Confirmation of the Decay of ²⁸³112 and First Indication for Hg-like Behavior of Element 112
- Fusion reaction of halo nuclei : A real-time wave-packet method for three-body tunneling dynamics
- Compound-nuclear reaction cross sections via surrogate reactions
- Hindrance of fusion induced by ⁶He
- High resolution measurement of neutron inelastic scattering and (n,2n) cross-sections for ⁵²Cr
- Pu-breeding feasibility in PWR

- DEC (computer-assigned)

URANIUM ISOTOPES Search

First Previous Next Last

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 - URANIUM 224 (0)
 - URANIUM 225 (0)
 - URANIUM 226 (0)
 - URANIUM 227 (0)
 - URANIUM 228 (0)
 - URANIUM 229 (0)
 - URANIUM 230 (0)
 - URANIUM 231 (0)
 - URANIUM 232 (0)
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 - URANIUM 241 (0)
 - URANIUM 242 (0)
 - URANIUM MILLS (0)
 - USE FEED MATERIALS PLANTS (410)
 - URANIUM MINERALS (1205)
 - UF EUXENITE (0)
 - URANOPILITE (0)
 - BT RADIOACTIVE MINERALS (3870)
 - NT AUTUNITE (0)
 - BASSETITE (0)
 - BECQUERELITE (0)
 - BILLIETITE (0)
 - BRANNERITE (0)
 - CARNOTITE (0)
 - CLARKEITE (0)



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Query 1 Query 2 Query 3 Query 4 Query 5 Combine queries

(#3 AND #4)

Search

#1 - DEC (computer-assigned) all uranium,isotopes 36421 hits
 #2 - DEC (computer-assigned) phrase URANIUM ISOTOPES 18504 hits
 #3 - DEC (computer-assigned) phrase REPROCESSING 7197 hits
 #4 - DEC (computer-assigned) phrase URANIUM ISOTOPES 18504 hits

((- DEC (computer-assigned) phrase REPROCESSING) AND (- DEC (computer-assigned) phrase URANIUM ISOTOP...)

The purpose of this search mode is to combine/refine previously executed searches using Boolean expressions. As operands in these expressions one can use references to previously executed searches, using "Number Sign"(#) followed by the request number. The request number is shown in the table (if not empty) above. The following Boolean operators are allowed:

AND, OR, NOT, AND NOT

For example:
 "(#1 or #2) and (#3 or #4)"

- DEC (computer-assigned)

URANIUM ISOTOPES Search

First | Previous | Next | Last

Expand all terms.

- URANIUM ISOTOPES (18504)
 - BT ISOTOPES (420982)
 - NT URANIUM 218 (0)
 - URANIUM 219 (0)
 - URANIUM 222 (0)
 - URANIUM 223 (0)
 - URANIUM 224 (0)
 - URANIUM 225 (0)
 - URANIUM 226 (0)
 - URANIUM 227 (0)
 - URANIUM 228 (0)
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 - URANIUM 231 (0)
 - URANIUM 232 (0)
 - URANIUM 233 (0)
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 - URANIUM 238 (0)
 - URANIUM 239 (0)
 - URANIUM 240 (0)
 - URANIUM 241 (0)
 - URANIUM 242 (0)
 - URANIUM MILLS (0)
 - USE FEED MATERIALS PLANTS (410)
 - URANIUM MINERALS (1205)
 - UF EUXENITE (0)
 - URANOPILITE (0)
 - BT RADIOACTIVE MINERALS (3870)
 - NT AUTUNITE (0)
 - BASSETITE (0)
 - BECQUERELITE (0)
 - BILLIETITE (0)
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Query 1 Query 2 Query 3 Query 4 Query 5 [Combine queries](#)

combined search

((- DEC (computer-assigned) ph is REPROCESSING) AND (- DEC (computer-assigned) ph is URANIUM ISOTOPES))

((- DEC (computer-assigned) phrase REPROCESSING) AND (- DEC (computer-assigned) phrase URANIUM ISOTOP...

From 1 to 10 of 114

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Apply to all records.

- 1 **Fast reactor fuel reprocessing technology in India**
- 2 **Reprocessing of AHWR spent-fuel: Challenges and strategies**
- 3 **Estimation of uranium-233 in low level waste generated from Thorex process using solid state nuclear track detectors**
- 4 **Criticality safety assessment of a compacted hulls canister**
- 5 **Long-time development of nuclear power capability on the base of current technology Vozmozhnost' dolgovremennogo razvitiya yadernoj ehnergetiki na baze sovremennoj tekhnologii**
- 6 **Studies on the separation and purification of uranium from thoria irradiated in PHWR**
- 7 **A new approach to the criticality safety assessment of PCM at BNFL Sellafield**
- 8 **Lessons learned from a criticality safety case for historic PCM waste retrieval**
- 9 **Selective sorption of technetium from simulated nitric acid waste using plasticized polymer membrane containing Aliquat-336**
- 10 **Removal of plutonium from low level Purex waste streams by Chitosan**

- DEC (computer-assigned)

URANIUM ISOTOPES [Search](#)

First | Previous | Next | Last

Expand all terms.

- URANIUM ISOTOPES (18504)**
- BT **ISOTOPES (420982)**
- NT URANIUM 218 (0)
- URANIUM 219 (0)
- URANIUM 222 (0)
- URANIUM 223 (0)
- URANIUM 224 (0)
- URANIUM 225 (0)
- URANIUM 226 (0)
- URANIUM 227 (0)
- URANIUM 228 (0)
- URANIUM 229 (0)
- URANIUM 230 (0)
- URANIUM 231 (0)
- URANIUM 232 (0)
- URANIUM 233 (0)
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- URANIUM 237 (0)
- URANIUM 238 (0)
- URANIUM 239 (0)
- URANIUM 240 (0)
- URANIUM 241 (0)
- URANIUM 242 (0)
- URANIUM MILLS (0)
- USE **FEED MATERIALS PLANTS (410)**
- URANIUM MINERALS (1205)**
- UF EUXENITE (0)
- URANOPILITE (0)
- BT **RADIOACTIVE MINERALS (3870)**
- NT AUTUNITE (0)
- BASSETITE (0)
- BECQUERELITE (0)
- BILLIETITE (0)
- BRANNERITE (0)
- CARNOTITE (0)
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> Performance
 Query: 3.389
 Download: 1.923

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Query 1 Query 2 Query 3 Query 4 Query 5 [Combine queries](#)

Any field all Knowledge management

Limit to records with full text Entire database Show 10

Any field all Knowledge,management

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[Delete query](#) [Store query](#) [New query](#) [Replicate query](#) [E-mail query](#)

First | [Previous](#) | [Next](#) | [Last](#) sort by: None Asc.

Apply to all records.

- 1 Spent Fuel Dissolution and Source Term Modelling in Safety Assessment. Report from a Workshop at Sigtunahoejden Hotel and Conference, Sigtuna, Sweden May 17-19, 2006. Synthesis and extended abstracts
- 2 Preventive maintenance for mechanical components Vorbeugende Instandhaltung fuer mechanische Komponenten
- 3 Ageing **management** procedures for mechanical components at the NPP GKN and KKP Einfuehrung des operativen Alterungsmanagements fuer mechanische Komponenten an den Standorten GKN und KKP
- 4 Mitsubishi Activities for advanced reactor development. Sodium-cooled fast reactor
- 5 Accordion effect during carotid artery stenting. Report of two cases and review of the literature
- 6 Interface issues associated with the ITER ECH system
- 7 Maintenance of the Laboratory of the Thyroid Iodine Content Monitoring as supporting origination for the emergency service and in the case of the radiation hazard Utrzymanie laboratorium pomiaru zawartosci jodu promieniotworczego w tarczycy dla potrzeb dzialania sluzb awaryjnych oraz na wypadek zagrozenia radiacyjnego
- 8 **Knowledge** resources on the Chernobyl accident and its consequences in the INIS Database
- 9 Research projects into the safety of nuclear power plants. Period covered: 01. July - 31. December 2006. Progress report Forschungsvorhaben auf dem Gebiet der Reaktorsicherheit. Berichtszeitraum: 01. Juli - 31. Dezember 2006. Fortschrittsbericht
- 10 Computer-assisted indexing for the INIS database Komp'yuterizirovannaya indeksatsiya baz dannykh INIS



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> Performance
 Query: 0.899
 Download: 3.851

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Query 1 Query 2 Query 3 Query 4 Query 5 Query 6 Query 7 [Combine queries](#)

Place of Publication [+](#) [-](#) [Authority](#)

Limit to records with full text Show [Search](#) [Clear](#)

Place of Publication phrase GERMANY

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[Delete query](#) [Store query](#) [New query](#) [Replicate query](#) [E-mail query](#)

First | [Previous](#) | [Next](#) | [Last](#) sort by: [sort](#)

Apply to all records.

32. MPA seminar 2006. Lectures 32. MPA Seminar 2006. Vortraege
- Integrity concept for piping systems with corresponding leak and break postulates in German nuclear power plants Das Integritatskonzept fuer Rohrleitungen sowie Leck- und Bruchpostulate in deutschen Kernkraftwerken
- Preventive maintenance for mechanical components Vorbeugende Instandhaltung fuer mechanische Komponenten
- Ageing management for systems, structures and components Alterungsmanagement fuer Systeme, Strukturen und Komponenten
- Ageing management procedures for mechanical components at the NPP GKN and KKP Einfuehrung des operativen Alterungsmanagements fuer mechanische Komponenten an den Standorten GKN und KKP
- Fracture-mechanical characterisation of WWER-440 pressure vessel steels of unit 8 of KKW Greifswald Bruchmechanische Charakterisierung von WWER-440 Reaktordruckbehälterstählen des Blockes 8 KKW Greifswald
- Two-criteria method for fracture-mechanical analysis of pipelines - practical application and influencing parameters Zwei-Kriterien-Verfahren zur bruchmechanischen Befundbewertung in Rohrleitungen - praktische Anwendung und Einflussgrößen
- The CARISMA project for measurement of fracture-mechanical characteristics on pre-exposed samples for the German PWR reactor lines. Status and interim report Das Projekt CARISMA zur Ermittlung von Bruchmechanikkennwerten an vorbestrahlten Proben fuer die deutsche DWR-Baulinien. Status und Zwischenbericht
- Piping service life experience in nuclear power plants. Progress with the OECD pipe failure data exchange project Internationale Betriebserfahrung mit Rohrleitungen in Kernkraftwerken. Fortschritt des OECD Pipe Failure Data Exchange (OPDE) Datenbank Projektes
- Modelling the interaction between corium and pressure vessel steel in the context of melt retention scenarios Modellierung der Wechselwirkung zwischen Corium und RDB-Stahl im Rahmen von Schmelzrückhaltungsszenarien

Place of Publication

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Expand all terms.

- [GERMANY](#) (209145)
- [GHANA](#) (270)
- [GREECE](#) (116)
- [GUATEMALA](#) (114)
- [HAITI](#) (0)
- [HUNGARY](#) (26819)
- [INDIA](#) (42801)
- [INDONESIA](#) (2341)
- [INTERNATIONAL ATOMIC ENERGY AGENCY \(IAEA\)](#) (90747)
- [INTERNATIONAL CENTRE FOR SCIENTIFIC AND TECHNICAL INFORMATION \(ICSTI\)](#) (237)
- [INTERNATIONAL COMMISSION ON RADIOLOGICAL PROTECTION \(ICRP\)](#) (11)
- [INTERNATIONAL ENERGY AGENCY \(IEA\)](#) (187)
- [INTERNATIONAL INSTITUTE FOR APPLIED SYSTEMS ANALYSIS \(IIASA\)](#) (6)
- [INTERNATIONAL ORGANISATION WITHOUT LOCATION](#) (0)
- [INTERNATIONAL ORGANIZATION FOR STANDARDIZATION \(ISO\)](#) (190)
- [IRAN, ISLAMIC REPUBLIC OF](#) (2472)
- [IRAQ](#) (353)
- [IRELAND](#) (2887)
- [ISRAEL](#) (7042)
- [ITALY](#) (24784)

- Introduction to INIS Services
- Users Manual (PDF)
- Online Tutorial (PDF)
- INIS Glossary
- Search Assistance

Welcome to the International Nuclear Information System (INIS) Database

INIS is the world's major international bibliographic database devoted to the peaceful uses of nuclear science and technology. INIS is operated by the [International Atomic Energy Agency \(IAEA\)](#) in collaboration with its Member States and co-operating international organizations. The IAEA, Vienna, Austria, is an autonomous organization within the United Nations System.

INTRODUCTION TO INIS SERVICES

INIS provides an online bibliographic retrieval service to presently 2.8 million references to commercial journals, [Grey/Non-Conventional Literature\(NCL\)](#) and Internet web documents relevant to nuclear science and technology. The [Full Text](#) of most of the cited Grey Literature can be retrieved online or by Electronic Document Delivery. Direct access to many commercial and web based articles is provided. The INIS database and the full-text NCL are also available on CD-ROM.

Access

Access to INIS varies from country to country. Free access is provided in many cases for qualifying universities. Contact your [National Liaison Officer](#) about INIS products and services availability.

Subject Scope

INIS is compiled from data submitted by INIS Members States as well as the INIS staff at the IAEA. Additional relevant records are purchased from scientific publishers. All references are abstracted and indexed in English using standardized bibliographic formats and rules. The subject scope of INIS responds to the information needs of the international nuclear community in the areas of reactors, safety, fusion, medicine, agriculture and pest control, nuclear chemistry, nuclear physics and materials science. Nuclear knowledge management, industry, legal and social aspects related to nuclear science are also covered. Since 1992, some economic and environmental references on non-nuclear energy sources are included.

INIS [Subject Categories Names](#) and [Subject Category Codes](#) are available online.

Searching INIS

Introduction: Searching INIS consists basically of four steps:

1. Selecting the [Field Name\(s\)](#) to be searched.
2. Selecting the [Search Value\(s\)](#).
3. Selecting the [Search Operator\(s\)](#).
4. Specifying the output format.

Online help and examples are utilized to assist in each of these steps. These are accessible by clicking on words underlined in blue. An online [INIS Glossary](#) provides additional information. An online [INIS Search Guide](#) can be printed for quick search assistance. An online [Field/Operators Matrix](#), which shows all Field Names(s) and Search Operators, is also available.

Information Retrieval: Information retrieval involves two concepts: Relevance and Recall ratios. A basic understand of these ratios, which are usually inverse, is essential to the optimal use of the various search tools available in the INIS database.

Recall: The percentage of relevant documents retrieved compared to the total number of relevant documents in the database.

Example: A theoretical query on Year=2004 and Place of Publication=United States and Waste Management as a phrase in the title finds 161 documents. However, it missed 40 relevant documents because synonyms for waste were not retrieved. Therefore, the recall would be 161/200 or 80%.

Search Operators(s) [OR](#), [ANY](#), [WILDCARD CHARACTERS](#) will increase recall (and therefore usually decrease relevance).

Relevance (also called Precision): The percentage of relevant documents retrieved compared to the total number of documents retrieved.

Example: In the above example, of the 161 documents retrieved, only 80 were found to be relevant to the purpose of the query. Therefore, the Relevance would be 80/161 or 50%.

Search Operators [AND](#), [NOT](#), [EQUAL](#), [PHRASE](#), [ALL](#), [RANGE](#) will increase Relevance (and therefore usually decrease recall).

Details of the search tools and how they impact relevance and recall will be explained further in online help guides. The INIS Glossary, and other guides (under development), provides an explanation of all query operations, data fields and output options, as well as other aspects of INIS.

INIS MANUALS

INIS Manuals that are relevant to search assistance are available in hard copy or online.

- ◆ IAEA-INIS-24: MANUAL FOR ONLINE RETRIEVAL FROM THE INIS DATABASE ON THE INTERNET. (The current version is under revision, but is still useful.)
- ◆ IAEA-INIS/ETDE Thesaurus

INIS GLOSSARY

Summary

- Conclusions
- Question and answers
- Thank you!