

Chapter 40 Nuclear Fission And Fusion Answers

Understanding Stellar Evolution
Journal of the British Nuclear Energy Society
America's Energy Future
Scientific and Technical Aerospace Reports
Schaum's Outline of College Physics, 11th Edition
Key Nuclear Reaction Experiments
Radiation Effects in Materials
Nuclear Materials Science
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Radiochemistry and Nuclear Chemistry
College Physical Science
Physics for Scientists and Engineers
Nuclear Power and the Environment
Physics for Scientists and Engineers with Modern Physics
Progress in Nuclear Energy
Nuclear Energy
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Physics
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Nuclear Energy
Physics for Scientists and Engineers with Modern Physics
Issues in Nuclear Energy Technologies: 2011 Edition

Understanding Stellar Evolution

This second edition represents an extensive revision of the first edition, - though the motivation for the book and the intended audiences, as described in the previous preface, remain the same. The overall length has been increased substantially, with revised or expanded discussions of a number of topics, - cluding Yucca Mountain repository plans, new reactor designs, health effects of radiation, costs of electricity, and dangers from terrorism and weapons proliferation. The overall status of nuclear power has changed rather little over the past eight years. Nuclear reactor construction remains at a very low ebb in much of the world, with the exception of Asia, while nuclear power's share of the electricity supply continues to be about 75% in France and 20% in the United States.

However, there are signs of a heightened interest in considering possible nuclear growth. In the late 1990s, the U. S. Department of Energy began new programs to stimulate research and planning for future reactors, and many candidate designs are now contending—at least on paper—to be the next generation leaders. Outside the United States, the commercial development of the Pebble Bed Modular Reactor is being pursued in South Africa, a French- German consortium has won an order from Finland for the long-planned EPR (European Pressurized Water Reactor), and new reactors have been built or planned in Asia. In an unanticipated positive development for nuclear energy, the capacity factor of U. S. reactors has increased dramatically in recent years, and most operating

reactors now appear headed for 20-year license renewals.

Journal of the British Nuclear Energy Society

America's Energy Future

The main aim of this study is to present power plants for all fields of industry. The chapters collected in the book are contributions by invited researchers with long-standing experience in different research areas. I hope that the material presented here is understandable to a wide audience, not only energy and mechanical engineering specialists but also scientists from various disciplines. The book contains seven chapters in two sections: (1) "Power Plants

Scientific and Technical Aerospace Reports

The ideal review for your college physics course More than 40 million students have trusted Schaum's Outlines for their expert knowledge and helpful solved problems. Written by renowned experts in their respective fields, Schaum's Outlines cover everything from math to science, nursing to language. The main feature for all these books is the solved problems. Step-by-step, authors walk

readers through coming up with solutions to exercises in their topic of choice. Outline format facilitates quick and easy review of college physics 984 solved problems Hundreds more practice problems with answers Exercises to help you test your mastery of college physics Appropriate for the following courses: College Physics, Introduction to Physics, Physics I and II, Noncalculus Physics, Advanced Placement H.S. Physics

Schaum's Outline of College Physics, 11th Edition

Key Nuclear Reaction Experiments

The A-to-Z reference resource for nuclear energy information A significant milestone in the history of nuclear technology, Nuclear Energy Encyclopedia: Science, Technology, and Applications is a comprehensive and authoritative reference guide written by a committee of the world's leading energy experts. The encyclopedia is packed with cutting-edge information about where nuclear energy science and technology came from, where they are today, and what the future may hold for this vital technology. Filled with figures, graphs, diagrams, formulas, and photographs, which accompany the short, easily digestible entries, the book is an accessible reference work for anyone with an interest in nuclear energy, and

includes coverage of safety and environmental issues that are particularly topical in light of the Fukushima Daiichi incident. A definitive work on all aspects of the world's energy supply, the Nuclear Energy Encyclopedia brings together decades of knowledge about energy sources and technologies ranging from coal and oil, to biofuels and wind, and ultimately nuclear power.

Radiation Effects in Materials

In this book the author charts the developments in nuclear physics since its inception around a century ago by reviewing the key experiments that helped drive and shape our understanding of the field, especially in the context of the wider developments in physics in the early 20th Century. In addition to providing a path through the field and the crucial events it looks at how these experiments not only answered key questions at the time but presented new challenges to the contemporary perception of the nuclear and sub-atomic worlds and how they helped develop our present understanding of nuclear physics.

Nuclear Materials Science

News in Physics

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This book provides an overview on nuclear physics and energy production from nuclear fission. It serves as a readable and reliable source of information for anyone who wants to have a well-balanced opinion about exploitation of nuclear fission in power plants. The text is divided into two parts; the first covers the basics of nuclear forces and properties of nuclei, nuclear collisions, nuclear stability, radioactivity, and provides a detailed discussion of nuclear fission and relevant topics in its application to energy production. The second part covers the basic technical aspects of nuclear fission reactors, nuclear fuel cycle and resources, safety, safeguards, and radioactive waste management. The book also contains a discussion of the biological effects of nuclear radiation and of radiation protection, and a summary of the ten most relevant nuclear accidents. The book is suitable for undergraduates in physics, nuclear engineering and other science subjects. However, the mathematics is kept at a level that can be easily followed by wider circles of readers. The addition of solved problems, strategically placed throughout the text, and the collections of problems at the end of the chapters allow readers to appreciate the quantitative aspects of various phenomena and processes. Many illustrations and graphs effectively supplement the text and help visualising specific points.

INIS Atomindex

Radiochemistry or Nuclear Chemistry is the study of radiation from an atomic or

molecular perspective, including elemental transformation and reaction effects, as well as physical, health and medical properties. This revised edition of one of the earliest and best known books on the subject has been updated to bring into teaching the latest developments in research and the current hot topics in the field. In order to further enhance the functionality of this text, the authors have added numerous teaching aids that include an interactive website that features testing, examples in MathCAD with variable quantities and options, hotlinks to relevant text sections from the book, and online self-grading texts. As in the previous edition, readers can closely follow the structure of the chapters from the broad introduction through the more in depth descriptions of radiochemistry then nuclear radiation chemistry and finally the guide to nuclear energy (including energy production, fuel cycle, and waste management). New edition of a well-known, respected text in the specialized field of nuclear/radiochemistry Includes an interactive website with testing and evaluation modules based on exercises in the book Suitable for both radiochemistry and nuclear chemistry courses

Radiochemistry and Nuclear Chemistry

Designed for the non-calculus physics course taken by those who are pursuing careers in science or engineering technology. This text is built about the use of examples with solutions designed to develop problem-solving skills.

College Physical Science

The Sixth Edition offers a completely integrated text and media solution that will enable students to learn more effectively and professors to teach more efficiently. The text includes a new strategic problem-solving approach, an integrated Maths Tutorial, and new tools to improve conceptual understanding.

Physics for Scientists and Engineers

The study of radiation effects has developed as a major field of materials science from the beginning, approximately 70 years ago. Its rapid development has been driven by two strong influences. The properties of the crystal defects and the materials containing them may then be studied. The types of radiation that can alter structural materials consist of neutrons, ions, electrons, gamma rays or other electromagnetic waves with different wavelengths. All of these forms of radiation have the capability to displace atoms/molecules from their lattice sites, which is the fundamental process that drives the changes in all materials. The effect of irradiation on materials is fixed in the initial event in which an energetic projectile strikes a target. The book is distributed in four sections: Ionic Materials; Biomaterials; Polymeric Materials and Metallic Materials.

Nuclear Power and the Environment

This book is concerned with reviewing the political and social context for nuclear power generation, the nuclear power fuel cycles and their implications for the environment.

Physics for Scientists and Engineers with Modern Physics

The movement of an electron around the atomic nucleus has today a great importance in many engineering fields. Electronics, aeronautics, micro and nanotechnology, electrical engineering, optics, lasers, nuclear power, computing, equipment and automation, telecommunications, genetic engineering, bioengineering, special processing, modern welding, robotics, energy and electromagnetic wave field is today only a few of the many applications of electronic engineering. This first chapter presents shortly a new and original relation which calculates the radius with that the electron is running around the atomic nucleus. The second chapter presents, shortly, a new and original relation (20) which calculates the Doppler Effect exactly. This new relation (20) is the exact form and the classical expression (10) is an approximate relation. Renewable energy is energy which comes from natural resources such as sunlight, wind, rain, tides, and geothermal heat, which are renewable (naturally replenished). The share

of renewables in electricity generation is around 18%, with 15% of global electricity coming from hydroelectricity and 3% from new renewables. The third chapter aims to disseminate new methods of obtaining energy. After 1950, began to appear nuclear fission plants. The fission energy was a necessary evil. In this mode it stretched the oil life, avoiding an energy crisis. Even so, the energy obtained from oil represents about 66% of all energy used. At this rate of use of oil, it will be consumed in about 40 years. Today, the production of energy obtained by nuclear fusion is not yet perfect prepared. But time passes quickly. We must rush to implement of the additional sources of energy already known, but and find new energy sources. In these circumstances this chapter comes to proposing possible new energy sources, like energies obtained by the annihilation of a particle with its antiparticle.

Progress in Nuclear Energy

'Understanding Stellar Evolution' is based on a series of graduate-level courses taught at the University of Washington since 2004, and is written for physics and astronomy students and for anyone with a physics background who is interested in stars. It describes the structure and evolution of stars, with emphasis on the basic physical principles and the interplay between the different processes inside stars such as nuclear reactions, energy transport, chemical mixing, pulsation, mass loss, and rotation. Based on these principles, the evolution of low- and high-mass stars

is explained from their formation to their death. In addition to homework exercises for each chapter, the text contains a large number of questions that are meant to stimulate the understanding of the physical principles. An extensive set of accompanying lecture slides is available for teachers in both Keynote(R) and PowerPoint(R) formats.

Nuclear Energy

For nearly 25 years, Tipler's standard-setting textbook has been a favorite for the calculus-based introductory physics course. With this edition, the book makes a dramatic re-emergence, adding innovative pedagogy that eases the learning process without compromising the integrity of Tipler's presentation of the science. For instructor and student convenience, the Fourth Edition of Physics for Scientists and Engineers is available as three paperback volumes... Vol. 1: Mechanics, Oscillations and Waves, Thermodynamics, 768 pages, 1-57259-491-8 Vol. 2: Electricity and Magnetism, 544 pages, 1-57259-492-6 Vol. 3: Modern Physics: Quantum Mechanics, Relativity, and The Structure of Matter, 304 pages, 1-57259-490-X ...or in two hardcover versions: Regular Version (Chaps. 1-35 and 39): 0-7167-3821-X Extended Version (Chaps. 1-41): 0-7167-3822-8 To order the volume or version you need, use the links above to go to each volume or version's specific page. Download errata for this book: This errata is for the first printing of Tipler's PSE, 4/e. The errors have been corrected in subsequent printings of the

book, but we continue to make this errata available for those students and teachers still using old copies from the first printing. Download as a Microsoft Word document or as a pdf file.

Physics for Scientists and Engineers Study Guide

Features include: *Full-length practice test with detailed answer explanations
*Diagnostic test *More practice plus test updates online *Complete content review
*Effective strategies for the PCAT *The latest information about recent changes to the PCAT (some changes introduced in October 2004; others to be introduced in October 2005)

Physics

Introduction to Physics

For multi-user PDF licensing, please contact customer service. Energy touches our lives in countless ways and its costs are felt when we fill up at the gas pump, pay our home heating bills, and keep businesses both large and small running. There are long-term costs as well: to the environment, as natural resources are depleted

and pollution contributes to global climate change, and to national security and independence, as many of the world's current energy sources are increasingly concentrated in geopolitically unstable regions. The country's challenge is to develop an energy portfolio that addresses these concerns while still providing sufficient, affordable energy reserves for the nation. The United States has enormous resources to put behind solutions to this energy challenge; the dilemma is to identify which solutions are the right ones. Before deciding which energy technologies to develop, and on what timeline, we need to understand them better. America's Energy Future analyzes the potential of a wide range of technologies for generation, distribution, and conservation of energy. This book considers technologies to increase energy efficiency, coal-fired power generation, nuclear power, renewable energy, oil and natural gas, and alternative transportation fuels. It offers a detailed assessment of the associated impacts and projected costs of implementing each technology and categorizes them into three time frames for implementation.

Physics for Scientists and Engineers, Volume 3

It is the first application to nuclear physics from energy-density functional method, for which Professor Walter Kohn received the Nobel Prize in Chemistry. The book presents a comprehensive extension of the Bohr-Wheeler theory with the present knowledge of nuclear density distribution function.

Power Plants in the Industry

This book is intended to provide an introduction to the basic principles of nuclear fission reactors for advanced undergraduate or graduate students of physics and engineering. The presentation is also suitable for physicists or engineers who are entering the nuclear power field without previous experience with nuclear reactors. No background knowledge is required beyond that typically acquired in the first two years of an undergraduate program in physics or engineering. Throughout, the emphasis is on explaining why particular reactor systems have evolved in the way they have, without going into great detail about reactor physics or methods of design analysis, which are already covered in a number of excellent specialist texts. The first two chapters serve as an introduction to the basic physics of the atom and the nucleus and to nuclear fission and the nuclear chain reaction. Chapter 3 deals with the fundamentals of nuclear reactor theory, covering neutron slowing down and the spatial dependence of the neutron flux in the reactor, based on the solution of the diffusion equations. The chapter includes a major section on reactor kinetics and control, including temperature and void coefficients and xenon poisoning effects in power reactors. Chapter 4 describes various aspects of fuel management and fuel cycles, while Chapter 5 considers materials problems for fuel and other constituents of the reactor. The processes of heat generation and removal are covered in Chapter 6.

Handbook of Loss Prevention and Crime Prevention

This expanded, revised, and updated fourth edition of Nuclear Energy maintains the tradition of providing clear and comprehensive coverage of all aspects of the subject, with emphasis on the explanation of trends and developments. As in earlier editions, the book is divided into three parts that achieve a natural flow of ideas: Basic Concepts, including the fundamentals of energy, particle interactions, fission, and fusion; Nuclear Systems, including accelerators, isotope separators, detectors, and nuclear reactors; and Nuclear Energy and Man, covering the many applications of radionuclides, radiation, and reactors, along with a discussion of wastes and weapons. A minimum of mathematical background is required, but there is ample opportunity to learn characteristic numbers through the illustrative calculations and the exercises. An updated Solution Manual is available to the instructor. A new feature to aid the student is a set of some 50 Computer Exercises, using a diskette of personal computer programs in BASIC and spreadsheet, supplied by the author at a nominal cost. The book is of principal value as an introduction to nuclear science and technology for early college students, but can be of benefit to science teachers and lecturers, nuclear utility trainees and engineers in other fields.

Radiation

Issues in Nuclear Energy Technologies / 2011 Edition is a ScholarlyEditions™ eBook that delivers timely, authoritative, and comprehensive information about Nuclear Energy Technologies. The editors have built Issues in Nuclear Energy Technologies: 2011 Edition on the vast information databases of ScholarlyNews.™ You can expect the information about Nuclear Energy Technologies in this eBook to be deeper than what you can access anywhere else, as well as consistently reliable, authoritative, informed, and relevant. The content of Issues in Nuclear Energy Technologies: 2011 Edition has been produced by the world's leading scientists, engineers, analysts, research institutions, and companies. All of the content is from peer-reviewed sources, and all of it is written, assembled, and edited by the editors at ScholarlyEditions™ and available exclusively from us. You now have a source you can cite with authority, confidence, and credibility. More information is available at <http://www.ScholarlyEditions.com/>.

Nuclear Fission and Cluster Radioactivity

This text provides a comprehensive review of knowledge regarding nuclear fission from both the purely scientific and practical points of view. Topics discussed include fission barriers, spontaneous fission, neutron-induced fission cross-sections, photon- and electron-induced fission, charged particle induced fission fragment angular momentum and ternary fission. The characteristics of other reaction products are also discussed. Contributed articles from several

distinguished nuclear scientists guarantee adequate treatment of some of the specialized research fields included in the text. Intended primarily as an introduction to nuclear fission for graduate students, this book will also provide useful information for nuclear physicists involved with research or teaching.

The Nuclear Fission Process

This major new reader has been put together by Physicians for Social Responsibility in Finland, a member of IPPNW, the International Physicians for the Prevention of Nuclear War, the recipient of the Nobel Prize in 1985. Comprising 70 articles, specially commissioned for this volume and written by leading authorities in their field, it provides an unusually wide-ranging examination of the interface between warfare and human health and society. In a world where the post-cold war era has proved a profound disappointment as regards any diminution in the incidence of armed conflict, this up-to-date and comprehensive source book will prove invaluable to health professionals and social scientists as well as those active in human rights, peace and development.

Energy from Nuclear Fission

The author is ready to assert that practically none of the readers of this book will

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ever happen to deal with large doses of radiation. But the author, without a shadow of a doubt, claims that any readers of this book, regardless of gender, age, financial situation, type of professional activity, and habits, are actually exposed to low doses of radiation throughout their life. This book is devoted to the effect of small doses on the body. To understand the basic effects of radiation on humans, the book contains the necessary information from an atomic, molecular and nuclear physics, as well as from biochemistry and biology. Special attention is paid to the issues that are either not considered or discussed very briefly in existing literature. Examples include the ionization of inner atomic shells that play an essential role in radiological processes, and the questions of transformation of the energy of ionizing radiation in matter. The benefits of ionizing radiation to mankind is reflected in a wide range of radiation technologies used in science, industry, agriculture, culture, art, forensics, and, what is the most important application, medicine. Radiation: Fundamentals, Applications, Risks and Safety provides information on the use of radiation in modern life, its usefulness and indispensability. Experiments on the effects of small doses on bacteria, fungi, algae, insects, plants and animals are described. Human medical experiments are inhuman and ethically flawed. However, during the familiarity of mankind with ionizing radiation, a large number of population groups were subject to accumulation, exposed to radiation at doses of small but exceeding the natural background radiation. This book analyzes existing, real-life radiation results from survivors of Hiroshima and Nagasaki, Chernobyl and Fukushima, and examines

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studies of radiation effect on patients, radiologists, crews of long-distant flights and astronauts, on miners of uranium mines, on workers of nuclear industry and on militaries, exposed to ionizing radiation on a professional basis, and on the population of the various countries receiving environmental exposure. The author hopes that this book can mitigate the impact of radiation phobia, which prevails in the public consciousness over the last half century. Explores the science of radiation and the effects of radiation technologies and biological processes Analyzes the elementary processes of ionization and excitation Summarizes information about inner shells ionization and its impact on matter and biological structures Discusses quantum concepts in biology and clarifies the importance of epigenetics in radiological processes Includes case studies focusing on humans irradiated by low doses of radiation and its effects

The Nuclear Imperative

University Physics is designed for the two- or three-semester calculus-based physics course. The text has been developed to meet the scope and sequence of most university physics courses and provides a foundation for a career in mathematics, science, or engineering. The book provides an important opportunity for students to learn the core concepts of physics and understand how those concepts apply to their lives and to the world around them. Due to the comprehensive nature of the material, we are offering the book in three volumes

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for flexibility and efficiency. Coverage and Scope Our University Physics textbook adheres to the scope and sequence of most two- and three-semester physics courses nationwide. We have worked to make physics interesting and accessible to students while maintaining the mathematical rigor inherent in the subject. With this objective in mind, the content of this textbook has been developed and arranged to provide a logical progression from fundamental to more advanced concepts, building upon what students have already learned and emphasizing connections between topics and between theory and applications. The goal of each section is to enable students not just to recognize concepts, but to work with them in ways that will be useful in later courses and future careers. The organization and pedagogical features were developed and vetted with feedback from science educators dedicated to the project. VOLUME III Unit 1: Optics Chapter 1: The Nature of Light Chapter 2: Geometric Optics and Image Formation Chapter 3: Interference Chapter 4: Diffraction Unit 2: Modern Physics Chapter 5: Relativity Chapter 6: Photons and Matter Waves Chapter 7: Quantum Mechanics Chapter 8: Atomic Structure Chapter 9: Condensed Matter Physics Chapter 10: Nuclear Physics Chapter 11: Particle Physics and Cosmology

Nuclear Energy Encyclopedia

The study guide provides students with key physical quantities and equations, misconceptions to avoid, questions and practice problems to gain further

understanding of physics concepts, and quizzes to test student knowledge of chapters. All written with the same level of detail as the examples found in the text.

War Or Health

University Physics

Concerns around global warming have led to a nuclear renaissance in many countries. Meanwhile, the nuclear industry is already warning of a need to train more nuclear engineers and scientists who are needed in a range of areas from healthcare and radiation detection to space exploration and advanced materials, as well as for the nuclear power industry. Here, Karl Whittle provides a solid overview of the intersection of nuclear engineering and materials science at a level approachable by advanced students from materials, engineering and physics. The text explains the unique aspects needed in the design and implementation of materials for use in demanding nuclear settings. In addition to material properties and their interaction with radiation, the book covers a range of topics including reactor design, fuels, fusion, future technologies and lessons learned from past incidents. Accompanied by problems, videos and teaching aids, the book is

suitable for a course text in nuclear materials and a reference for those already working in the field.

Nuclear Fission Reactors

Light, atomics, and nucleonics

Nuclear Energy Encyclopedia

In this global wake-up call, nuclear physicist Jeff Eerkens explores remedies for the impending energy crisis, when oil and natural gas are depleted. The Nuclear Imperative demonstrates that solar, wind, and biomass power are incapable of supplying the enormous quantities of electricity and heat needed for manufacturing portable synthetic fuels to replace our current use of fossil fuels. It offers a fresh look at uranium-produced energy as the optimal affordable solution.

Kaplan PCAT, 2007 Edition

The Companion Web Site (<http://www.pse6.com>), newly revised for this edition,

features student access to Quizzes, Web Links, Internet Exercises, Learning Objectives, and Chapter Outlines. In addition, instructors have password-protected access to a downloadable file of the Instructor's Manual, a Multimedia Manager demo, and PowerPoint' files of QUICK QUIZZES.

Nuclear Fission and Fission-Product Spectroscopy

The A-to-Z reference resource for nuclear energy information A significant milestone in the history of nuclear technology, Nuclear Energy Encyclopedia: Science, Technology, and Applications is a comprehensive and authoritative reference guide written by a committee of the world's leading energy experts. The encyclopedia is packed with cutting-edge information about where nuclear energy science and technology came from, where they are today, and what the future may hold for this vital technology. Filled with figures, graphs, diagrams, formulas, and photographs, which accompany the short, easily digestible entries, the book is an accessible reference work for anyone with an interest in nuclear energy, and includes coverage of safety and environmental issues that are particularly topical in light of the Fukushima Daiichi incident. A definitive work on all aspects of the world's energy supply, the Nuclear Energy Encyclopedia brings together decades of knowledge about energy sources and technologies ranging from coal and oil, to biofuels and wind, and ultimately nuclear power.

From Nuclear Transmutation to Nuclear Fission, 1932-1939

The Handbook of Loss Prevention and Crime Prevention, 5e, is a trusted resource for physical security professionals, students, and candidates for the coveted Certified Protection Professional (CPP) certification administered by ASIS International. The U.S. government recently announced that employees will have to obtain CPP certification to advance in their careers. Edited by the security practitioner and author Lawrence Fennelly, this handbook gathers in a single volume the key information on each topic from eminent subject-matter experts. Taken together, this material offers a range of approaches for defining security problems and tools for designing solutions in a world increasingly characterized by complexity and chaos. The 5e adds cutting-edge content and up-to-the-minute practical examples of its application to problems from retail crime to disaster readiness. Covers every important topic in the field, including the latest on wireless security applications, data analysis and visualization, situational crime prevention, and global security standards and compliance issues Required reading for the certification DHS selected for its infrastructure security professionals Each chapter is contributed by a top security professional with subject-matter expertise

Nuclear Energy

Physics for Scientists and Engineers with Modern Physics

From Nuclear Transmutation to Nuclear Fission, 1932-1939 deals with a particular phase in the early history of nuclear physics: the race among four laboratory teams to be the first to achieve the transmutation of atomic nuclei with artificially accelerated nuclear projectiles (protons) in high-voltage discharge tubes. This volume covers the backgro

Issues in Nuclear Energy Technologies: 2011 Edition

The 53 papers of this proceedings were first presented at the 3rd International Workshop on Nuclear Fission and Fission-Product Spectroscopy, held in Cadarache, France in May 2005. The papers present recent research in the field, with topics that include nuclear fission experiments, spectroscopy of neutron rich nuclei, fission data evaluation, and

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