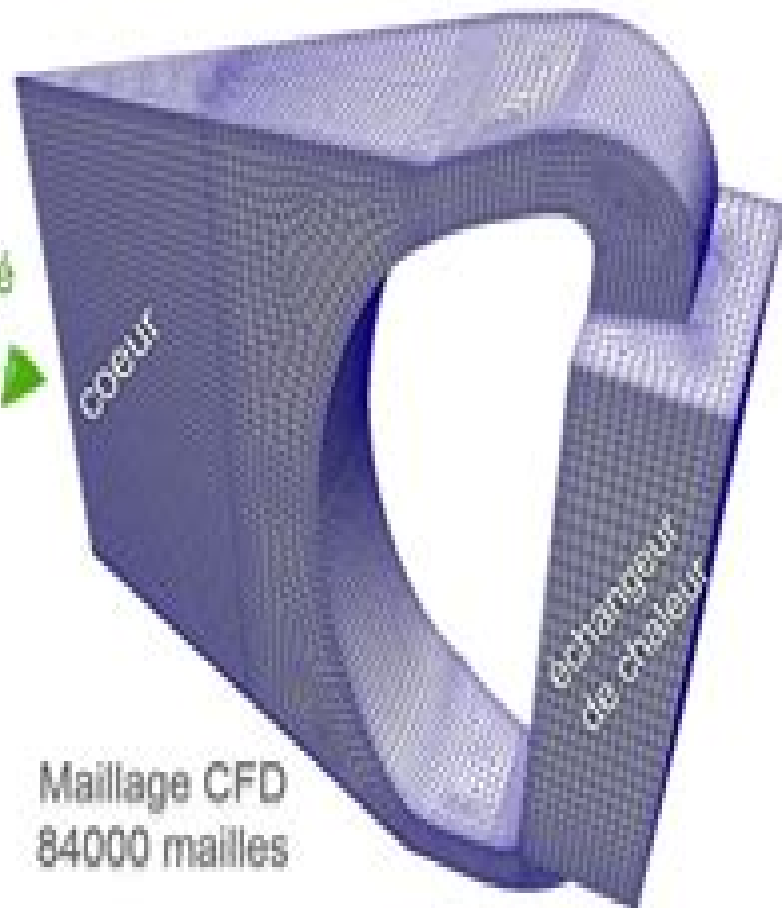


1/16^{ème} du circuit
combustible modélisé

18 m³/16



Maillage CFD
84000 mailles



neutronique

thermo-
hydraulique

Methodes Mathematiques En Neutronique

International Atomic Energy Agency

A red circular graphic element, resembling a stylized atom or a lens flare, is positioned to the right of the IAEA text bar.

Mathodes Mathamatiques En Neutronique:

Méthodes mathématiques en neutronique Jacques Planchard, 1995 *Computational Methods in Transport* Frank Graziani, 2006-02-17 There exist a wide range of applications where a significant fraction of the momentum and energy present in a physical problem is carried by the transport of particles. Depending on the specific application the particles involved may be photons, neutrons, neutrinos or charged particles. Regardless of which phenomena is being described at the heart of each application is the fact that a Boltzmann like transport equation has to be solved. The complexity and hence expense involved in solving the transport problem can be understood by realizing that the general solution to the 3D Boltzmann transport equation is in fact really seven dimensional: 3 spatial coordinates, 2 angles, 1 time and 1 for speed or energy. Low order approximations to the transport equation are frequently used due in part to physical justification but many in cases simply because a solution to the full transport problem is too computationally expensive. An example is the diffusion equation which effectively drops the two angles in phase space by assuming that a linear representation in angle is adequate. Another approximation is the grey approximation which drops the energy variable by averaging over it. If the grey approximation is applied to the diffusion equation the expense of solving what amounts to the simplest possible description of transport is roughly equal to the cost of implicit computational fluid dynamics. It is clear therefore that for those application areas needing some form of transport, fast, accurate and robust transport algorithms can lead to an increase in overall code performance and a decrease in time to solution.

The Physics of Nuclear Reactors Serge Marguet, 2018-02-26 This comprehensive volume offers readers a progressive and highly detailed introduction to the complex behavior of neutrons in general and in the context of nuclear power generation. A compendium and handbook for nuclear engineers, a source of teaching material for academic lecturers as well as a graduate text for advanced students and other non experts wishing to enter this field, it is based on the author's teaching and research experience and his recognized expertise in nuclear safety. After recapping a number of points in nuclear physics, placing the theoretical notions in their historical context, the book successively reveals the latest quantitative theories concerning the slowing down of neutrons in matter, the charged particles and electromagnetic rays, the calculation scheme, especially the simplification hypothesis, the concept of criticality based on chain reactions, the theory of homogeneous and heterogeneous reactors, the problem of self-shielding, the theory of the nuclear reflector, a subject largely ignored in literature, the computational methods in transport and diffusion theories. Complemented by more than 400 bibliographical references, some of which are commented and annotated and augmented by an appendix on the history of reactor physics at EDF Electricité de France, this book is the most comprehensive and up to date introduction to and reference resource in neutronics and reactor theory.

Advanced Monte Carlo for Radiation Physics, Particle Transport Simulation and Applications Andreas Kling, Fernando J.C. Barao, Masayuki Nakagawa, Luis Tavora, Pedro Vaz, 2014-02-22 This book focusses on the state of the art of Monte Carlo methods in radiation physics and particle transport simulation and

applications the latter involving in particular the use and development of electron gamma neutron gamma and hadronic codes Besides the basic theory and the methods employed special attention is paid to algorithm development for modeling and the analysis of experiments and measurements in a variety of fields ranging from particle to medical physics

Research Reactor Experimental Techniques ,1966 **ESAIM.** ,2002 **INIS Atomindex** ,1996 **Nuclear Techniques for Mineral Exploration and Exploitation** International Atomic Energy Agency,1971 **Traité de neutronique** Jean Bussac,Paul Reuss,1978 *Proceedings of the International Conference on the Physics of Nuclear Science and Technology* ,1998 Bibliographie nationale française ,1996 *Livres hebdo* ,1995 *Revue Roumaine de Mathématiques Pures Et Appliquées* ,1998 **Le trésor de Trébry, Côtes-du-Nord, Ier siècle avant notre ère** Katherine Gruel,1981-01-01T00:00:00+01:00 Cet ouvrage est une r dition num rique d un livre paru au XXe si cle d sormais indisponible dans son format d origine **Analyse mathématique et calcul numérique pour les sciences et les techniques** Robert Dautray,1984 **Méthodes variationnelles** Robert Dautray,Michel Artola,Jacques Louis Lions,1988 *Introduction aux méthodes numériques* Franck Jedrzejewski,2005-07-15 De l approximation polynomiale la r solution d quations aux d riv es partielles par des m thodes de diff rences de volumes et d l ments finis ce livre offre un large panorama des m thodes num riques actuelles Cette seconde dition offre des compl ments d analyse matricielle et un nouveau chapitre sur les quations de la physique math matique qui sont au c ur des pr occupations d aujourd hui **Mémorial des sciences mathématiques** ,1956 **Répertoire général de la recherche: Sciences de la matière** France. Délégation Générale à la Recherche Scientifique et Technique,1973 **Les Livres disponibles** ,1985 La liste exhaustive des ouvrages disponibles publi s en langue fran aise dans le monde La liste des diteurs et la liste des collections de langue fran aise

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