


# Nuclear Safety in Light Water Reactors: Severe Accident Phenomenology

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**Nuclear Safety in Light Water Reactors: Severe Accident Phenomenology**
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This vital reference is the only one-stop resource on how to assess, prevent, and manage severe nuclear accidents in the light water reactors (LWRs) that pose the most risk to the public. LWRs are the predominant nuclear reactor in use around the world today, and they will continue to be the most frequently utilized in the near future. Therefore, accurate determination of the safety issues associated with such reactors is central to a consideration of the risks and benefits of nuclear power. This book emphasizes the prevention and management of severe accidents to teach nuclear professionals how to mitigate potential risks to the public to the maximum extent possible.

- Organizes and presents all the latest thought on LWR nuclear safety in one consolidated volume, provided by the top experts in the field, ensuring high-quality, credible and easily accessible information
- Explains how developments in the field of LWR severe accidents have provided more accurate determinations of risk, thereby shedding new light on the debates surrounding nuclear power safety, particularly in light of the recent tragedy in Japan
- Concentrates on prevention and management of accidents, developing methodologies to estimate the consequences and associated risks

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## Editorial Review

About the Author

Dr. Bal Raj Sehgal is recognized as one of the top-tier nuclear scientists in the world. He has contributed to the fields of reactor safety, physics, and engineering for 40+ years, through his involvement in R&D at two major US national laboratories (Argonne and Brookhaven), the Electric Power Research Institute, Purdue University, MIT, University of California at Berkeley and the Swedish Royal Institute of Technology. He is internationally recognized for his research publications, and for his many contributions to the profession, particularly in the realm of light water reactor design and analysis.

Dr. Sehgal was appointed as Chair Professor of Nuclear Power Safety at the Royal Institute of Technology in 1991, where he initiated and developed a large research program on reactor safety, which is supported by the US, Sweden, Finland, Switzerland and the EU, and is considered to be one of the finest in the world. For the past 22 years, Dr. Sehgal has been active in the "Severe Accident" area, managing projects at major players such as Westinghouse, and General Electric, and serving as a reviewer to NRC and the OECD (CSNI).

Dr. Seghal has lectured extensively at conferences and institutions across the globe, from Sao Paolo and Stuttgart to Beijing and Kyoto. Prof. Sehgal is active in the nuclear power safety community in the US, Japan, Europe and Sweden. He has been invited to provide expert review of the technical aspects of research programs from Italy to the US and Russia, and has coordinated several very large European Union (EU) research programs.

Prof. Sehgal has published extensively over his career, having produced more than 360 peer-reviewed papers and reports in various esteemed journals and conference proceedings. He served as the North American Executive Editor of the Pergamon Press journal "Progress in Nuclear Energy," and currently serves on the Editorial Board of Elsevier’s journal, “Nuclear Engineering and Design”.

He has been the recipient of many prestigious awards from the American Nuclear Society, including the Glenn Seaborg Medal, as well as the Distinguished Scientist Award from the Japan Atomic Energy Research Institute. He was elected a Fellow of the American Nuclear Society in 1983, a Fellow of the ASME in 1998, and as the foreign member of the Royal Swedish Academy of Engineering Sciences in 2003.

47 organizations from 24 countries (including Europe plus the USA, Canada, Korea, India, Japan) have come together to network their capacities of research in SARNET (Severe Accident Research NETwork of Excellence). Their aim is to resolve the most important remaining uncertainties and safety issues on severe accidents in existing and future water-cooled nuclear power plants. After a first project in the 6th Framework Programme (FP6) of the European Commission, the SARNET2 project, coordinated by the IRSN, started in April 2009 for 4 years in the FP7 frame. Joint research projects are performed by the partners through new experiments, physical modelling and model implementation in computer simulation codes. For dissemination of knowledge, the network organizes periodic education courses and it has gathered 45 authors to write this book, inclusive of approximately 30 years of research on the phenomenology of severe accidents.

## Users Review

**From reader reviews:**

**Debbie Brown:**

Nowadays reading books be a little more than want or need but also get a life style. This reading habit give you lot of advantages. Advantages you got of course the knowledge even the information inside the book in which improve your knowledge and information. The data you get based on what kind of guide you read, if you want drive more knowledge just go with schooling books but if you want really feel happy read one together with theme for entertaining for example comic or novel. The Nuclear Safety in Light Water Reactors: Severe Accident Phenomenology is kind of book which is giving the reader unstable experience.

**James Vera:**

A lot of people always spent all their free time to vacation or even go to the outside with them family or their friend. Did you know? Many a lot of people spent many people free time just watching TV, or maybe playing video games all day long. If you want to try to find a new activity this is look different you can read a new book. It is really fun in your case. If you enjoy the book that you read you can spent the whole day to reading a publication. The book Nuclear Safety in Light Water Reactors: Severe Accident Phenomenology it is extremely good to read. There are a lot of people that recommended this book. These people were enjoying reading this book. In case you did not have enough space to create this book you can buy the actual e-book. You can m0ore very easily to read this book through your smart phone. The price is not very costly but this book has high quality.

**Ann Mickey:**

People live in this new day time of lifestyle always attempt to and must have the extra time or they will get large amount of stress from both daily life and work. So , whenever we ask do people have extra time, we will say absolutely yes. People is human not really a robot. Then we ask again, what kind of activity have you got when the spare time coming to you of course your answer will probably unlimited right. Then do you ever try this one, reading ebooks. It can be your alternative throughout spending your spare time, the book you have read will be Nuclear Safety in Light Water Reactors: Severe Accident Phenomenology.

**Michael Sherman:**

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