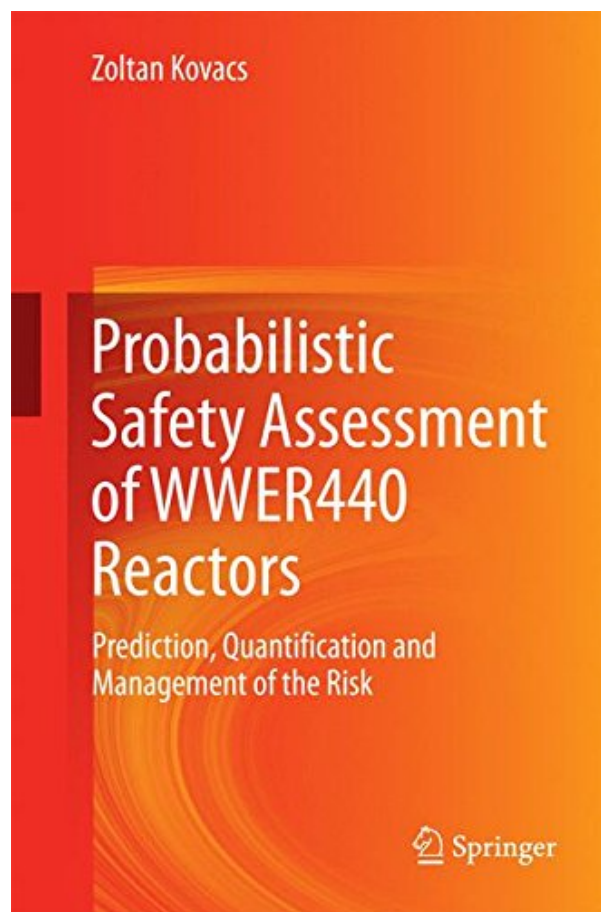


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# Probabilistic Safety Assessment of WWER440 Reactors

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From the Back Cover

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The role of PSA for the plants is an estimation of the risks in absolute terms and in comparison with other risks of the technical and the natural world. Plant-specific PSAs are being prepared for the plants and being applied for detection of weaknesses, design improvement and backfitting, incident analysis, accident management, emergency preparedness, prioritization of research and development and to support the regulatory activities.

There are three levels of PSA, being performed for full power and low power operation and shutdown operating modes of the plants: level 1, 2 and 3 PSA. The nuclear regulatory authorities do not require the level 3 PSA for the plants in the member countries of the European Union. This means that only a limited number of NPPs in Europe have the level 3 PSA available. However, in the light of the Fukushima accident the performance of such analyses is strongly recommended in the future. This book is intended for professionals working in the nuclear industry, researchers and students interested in safety of operational plants.

#### About the Author

Zoltan Kovacs is Managing Director of the company RELKO Ltd, Engineering and Consulting Services. He received his engineering degree and Ph.D in nuclear engineering from Slovak University of Technology in Bratislava, Slovakia. He is actively involved in the area of probabilistic safety assessment of nuclear power plants and other potentially dangerous technologies. He is project manager of the level 1 and level 2 living PSA projects being performed for the Slovak NPPs in operation. He has closed cooperation with IAEA as a lecturer in the PSA training courses. He represents Slovakia in the Working Group for Risk Assessment of NPPs (WGRISK) in OECD.

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