Record Nr. UNINA9910645897003321 Autore Marguet Serge Titolo A Brief History of Nuclear Reactor Accidents: From Leipzig to Fukushima / / by Serge Marguet Cham:,: Springer International Publishing:,: Imprint: Springer,, Pubbl/distr/stampa 2022 **ISBN** 9783031105005 9783031104992 Edizione [1st ed. 2022.] Descrizione fisica 1 online resource (480 pages) Collana Popular Science, , 2626-6121 Disciplina 621,4835 Soggetti Nuclear physics Science - History Nuclear engineering Renewable energy sources Sustainability **Nuclear Physics** History of Science **Nuclear Energy** Renewable Energy Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Nota di bibliografia Includes bibliographical references. Nota di contenuto 1. Introduction -- 2. The Physics of Severe Nuclear Accidents -- 3. Pre-1980 Severe Accidents -- 4. Three Mile Island -- 5. Chernobyl -- 6. Fukushima. Sommario/riassunto Are you afraid of a nuclear reactor accident? Should you be? This book

will arm you with the scientific knowledge necessary to make a rational and informed opinion on the subject, without having to be an expert in nuclear physics. Written so that a non-specialist can easily approach the highly technical aspects, it looks at all significant nuclear reactor accidents since the dawn of the Atomic Age and brings to light many crucial details that rarely, if ever, appear in the general media. Serge Marguet, an internationally renowned expert in reactor physics, breaks down the must-know technical aspects of numerous nuclear reactor accidents throughout history — both famous and unknown — from the

first ever nuclear accident in Leipzig to the Chernobyl explosion and, finally, the Fukushima affair and its most recent developments. With many high-quality photographs and diagrams, this book is essential reading for anyone concerned about nuclear safety, curious about nuclear reactors, or simply interested in the history — and future — of nuclear power.