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handbook of generation iv nuclear reactors second edition is a fully revised and updated comprehensive resource on the latest research and advances in generation iv nuclear reactor concepts editor igor piro and his team of expert contributors have updated every chapter to reflect advances in the field since the first edition published in 2016 the book teaches the reader about available technologies future prospects and the feasibility of each concept presented equipping them users with a strong skillset which they can apply to their own work and research provides a fully updated revised and comprehensive handbook dedicated entirely to generation iv nuclear reactors includes new trends and developments since the first publication as well as brand new case studies and appendices covers the latest research developments and design information surrounding generation iv nuclear reactors

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in the lifetimes of the authors the world and especially the united states have received three significant wake up calls on energy production and consumption the first of these occurred on october 15 1973 when the yom kippur war began with an attack by syria and egypt on israel the united states and many western countries supported israel because of the western support of israel several arab oil exporting nations imposed an oil embargo on the west these nations withheld five million barrels of oil per day other countries made up about one million barrels of oil per day but the net loss of four million barrels of oil

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