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small modular reactors smrs are an advanced safe type of nuclear reactor technology that are suitable for small and medium sized applications including both power and heat generation in particular their use as individual units or in combination to scale up capacity offer benefits in terms of siting installation operation lifecycle and economics in comparison to the development of larger nuclear plant for centralised electricity power grids interest has increased in the research and development of smrs for both developing countries as well as such additional cogeneration options as industrial chemical process heat desalination and district heating and hydrogen production this book reviews key issues in their development as well as international r d in the field gives an overview of small modular reactor technology reviews the design characteristics of integral pressurized water reactors and focuses on reactor core and fuel technologies key reactor system components instrumentation and control human system interfaces and safety considers the economics financing licensing construction methods and hybrid energy systems of small modular reactors describes smr development activities worldwide and concludes with a discussion of how smr deployment can contribute to the growth of developing countries

the instruments and controls for the brookhaven nuclear reactor have evolved from a development program whose objective

was among others to create a research facility throughout this program it has been clear that the ultimate arrangement of instruments and controls can not be fixed in advance of actual operation the ultimate arrangement will depend in large measure on the research activity to take place in the future it has been necessary therefore to provide a wide range of instrument capabilities and a large number of control functions underlying this primary objective of creating a versatile research facility is the associated requirement that the reactor be safe the requirements for safety are in some ways as varied and complex as those of research in some instances they are dominant exemplifying the flexibility and versatility of the reactor instrumentation are electronic instruments of advanced design for measuring power at extremely low levels indicating and recording the rate of rise of power level over a wide range of power and regulating power at preset levels exemplifying the variety of safety devices are instruments for monitoring power level detected by ionization chambers by neutron thermopiles and by graphite and metal cartridge thermocouples devices which monitor the operability of equipment also contribute to the safety of the reactor kar p 7

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