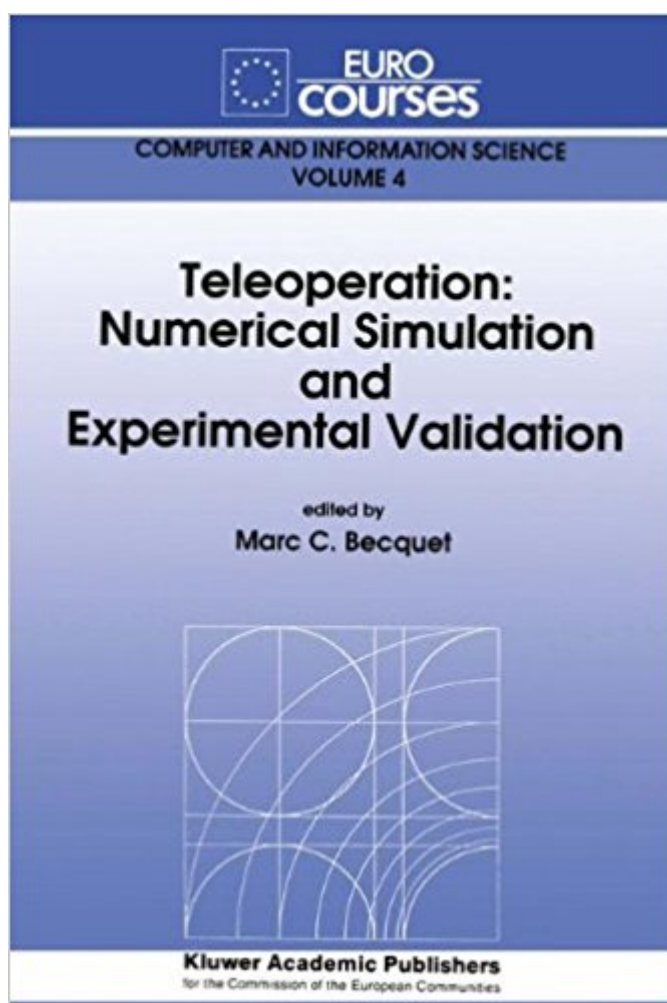


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Teleoperation: Numerical Simulation And Experimental Validation (Eurocourses: Computer And Information Science)



Synopsis

The demand for safety in modern industrial processes has come to involve an increasing demand for teleoperated devices in order to avoid the exposure of humans to hazardous conditions during the operation, maintenance under normal or abnormal conditions, and decommissioning of equipment after its useful lifetime has terminated. An important landmark for teleoperations has been reached in the 1990s as the first commercial nuclear power stations reach the end of their useful life. Simultaneously, progress in the work on controlled thermonuclear fusion demonstrates the importance of teleoperation in the assembly of future reactors as well as in their maintenance and decommissioning. Teleoperation: Numerical Simulation and Experimental Validation presents the fundamentals and the advances in simulation and experimentation in the teleoperations field, dealing with such matters as path planning, calibration, autonomy, safety, and radiation hardening. The book addresses users working in the field of engineering R & D and plant operation management. Students in schools of engineering, too, will find much of value since the book addresses topics of acute practical interest in an area that can only grow in importance.

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