

Optical Fiber Current and Voltage Sensors

Optical Fiber Current and Voltage Sensors is the first book to provide a complete, comprehensive and up to date treatment of the domain of fiber optic and polarimetric sensors, covering fundamental operating principles, characteristics, and construction. Written by one of the most recognised experts in polarimetric sensing, Optical Fiber Current and Voltage Sensors begins by covering the fundamentals of polarized light, as well as essential sensor components. The author then goes on to outline various sensor types and their applications, with a focus on sensors for electric phenomena. The chapters then lay out the demands that sensors need to meet, the technical obstacles and limitations which need to be considered. The book also covers comparisons to corresponding traditional instruments, as well as covering alternative non-conventional sensors. This book will be of interest to a broad audience of prospective readers ranging from graduate research students, to researchers in physics and engineering fields, to industry professionals active in the field who wish to learn about the technology and/or are interested in the development of new commercial solutions based on polarimetric-type fiber sensing as well as their use for high voltage current and voltage sensing.

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