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a treatment of the experimental techniques and instrumentation most often used in nuclear and particle physics experiments as well as in various other experiments providing useful results and formulae technical know how and informative details this second edition has been revised while sections on cherenkov radiation and radiation protection have been updated and extended

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cryogenics low temperature physics has become important in everyday life through its use in satellite communications medical diagnosis natural gas transport infrared surveillance etc this book explains the how and why of cooling systems liquid nitrogen liquid helium and the approach to absolute zero it will be of value to physics graduate students as well as to engineers and biologists facing low temperature problems

in the last few decades there has been tremendous activity surrounding composite materials a matrix material in which is embedded a reinforcement material modern high performance composites have revolutionized recent technology as new composites are designed along with the structures they will become part of these engineered materials are an ever increasing percentage of materials used in a variety of roles this book focuses on experimental methods that improve the understanding of the mechanics of composite materials experiments are a critical means of material characterization and damage detection and are always evolving these papers present a window onto the world of experimental methods for mechanical testing of composites for individuals who wish to fully encounter that world

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