



# Principles of Space Instrument Design (Cambridge Aerospace Series)

*A. M. Cruise, J. A. Bowles, T. J. Patrick, C. V. Goodall*

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This informative account of the design of instruments used in rockets and spacecraft begins by introducing the basic principles of designing for the space environment. Following chapters discuss mechanical, structural, thermal and electronic design, including the problems that are frequently encountered in the testing and verification of spacecraft subsystems. The authors carefully describe important aspects of design, including stress analysis, multilayer insulation, two-dimensional sensor systems, mechanisms, the structure of space optics, and project management and control. A final chapter looks toward future developments of space instrument design and addresses issues arising from financial constraints. The book contains lists of symbols, acronyms and units and a comprehensive reference list. Worked examples, found throughout the text, make it valuable to final year undergraduate and beginning graduate students of physics, space science, space-craft engineering and astronautics.

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