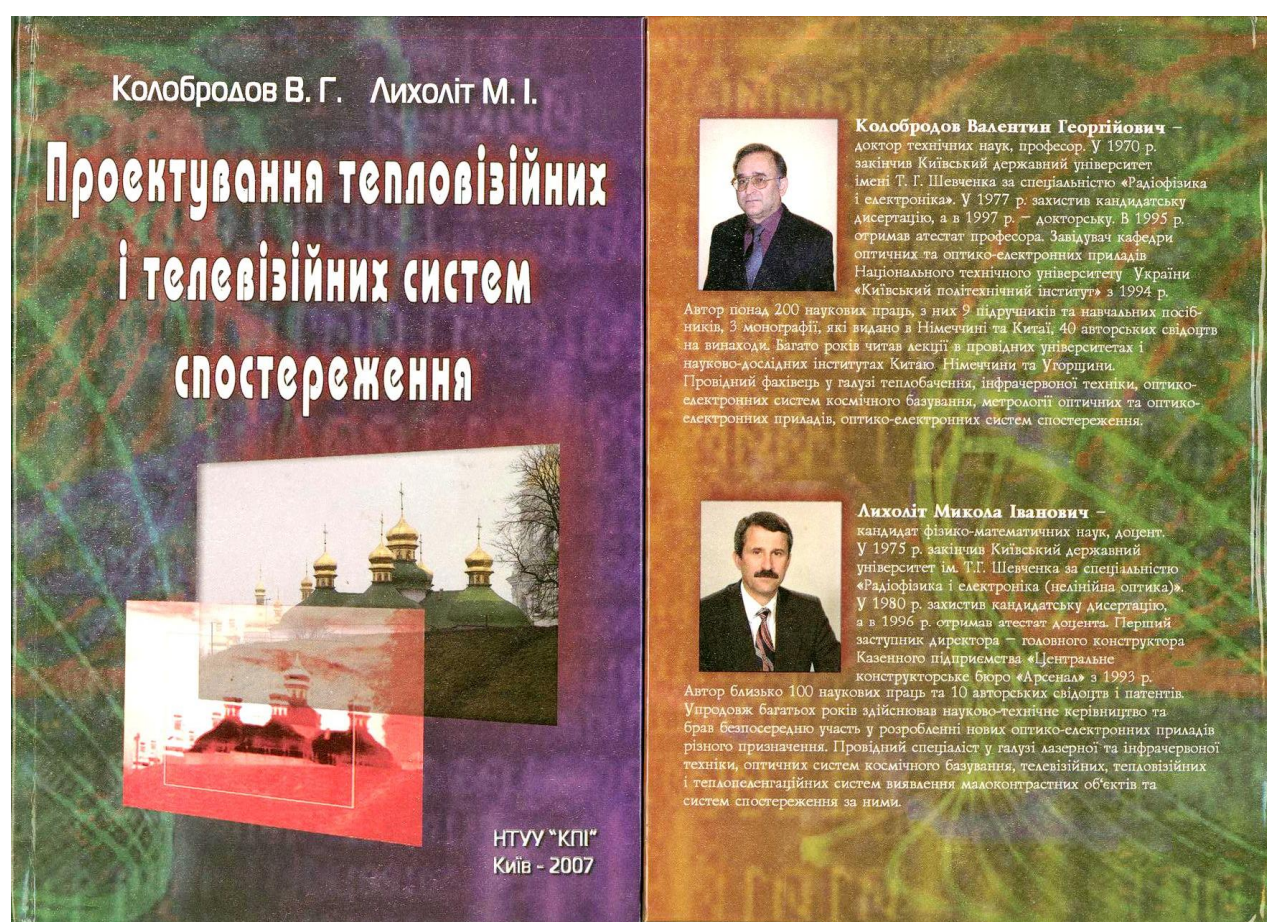


## Design of Television and Thermovision Observing Systems:

textbook / V. G. Kolobrodov, M. I. Lyholit – K.: NTUU “KPI”, 2007. – 364 p.

The textbook is devoted to explanation of physical fundamentals of thermovision and television and to design of optoelectronic observing system (OEOS). It includes the fundamentals of signal transformation in OEOS, modeling of some elements of “target – OEOS – human observer” system. There are presented topics about targets and background, atmosphere, optical systems, detectors, an electronic processing units, displays and visual analyzer. The techniques for performance evaluation of OEOS are investigated with particular attention to maximum range for target detection and maximum range for target recognition. The typical examples of OEOS design illustrate the materials in details.

For the Master's degree students in optical engineering, photonics and optoelectronic engineering. May be useful for designers of the optoelectronic technique.



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