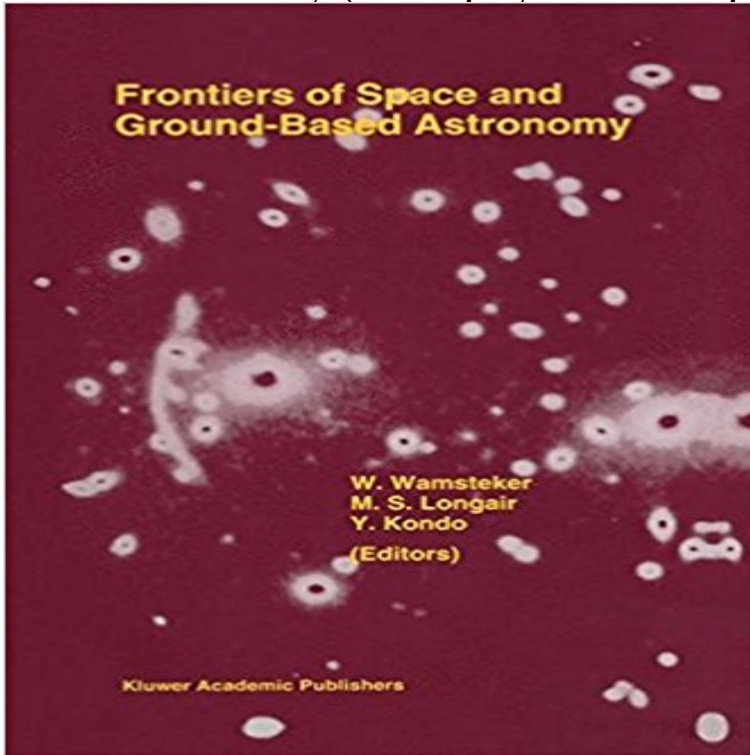


Frontiers Of Space And Ground-Based Astronomy: The Astrophysics of the 21st Century (Astrophysics and Space Science Library)



ROSAT Observations G. HASINGER
Max-Planck-Institut für extraterrestrische
Physik, D-85740 Garching, Germany
Abstract. This review describes the most
recent advances in the study of the
extragalactic soft X-ray background and
what we can learn about its constituents.
The deepest pointed observations with the
ROSAT PSPC are discussed. The
logN-logS relation is presented, which
reaches to the faintest X-ray fluxes and to
the highest AGN surface densities ever
achieved. The $N(>S)$ relation shows a 2
density in excess of 400 deg⁻² at the faintest
fluxes and a flattening below the Einstein
Deep Survey limit. About 60% of the
extragalactic background has been resolved
in the deepest field. Detailed source spectra
and first optical and radio identifications
will be discussed. The results are put into
perspective of the higher energy X-ray
background. Key words: X-rays,
background radiations, active galactic
nuclei. 1. Introduction The extragalactic
X-ray background (XRB), discovered
about 30 years ago, has been studied
extensively with many X-ray experiments,
in particular with the satellites HEAO I
and II (see e.g. Boldt 1987) and with
ROSAT (e. g. Hasinger et al. , 1993).
Figure 1 shows a compilation of some of
the most recent spectral measurements for
the X-ray background. Over the energy
range from 3 to about 100 keV its spectrum
can be well approximated by an optically
thin thermal bremsstrahlung model with kT
 ~ 40 keV, while at lower X-ray energies a
steepening into a new component has been
observed (e. g.

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