# Index





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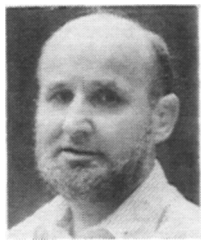

**Eberhard Spiller** received the Dipl. Phys. in 1960 and the Ph.D. in 1964 in physics from the Johann Wolfgang Goethe University of Frankfurt, Germany. He remained with the faculty in Frankfurt until 1968, joined the IBM Research Center in Yorktown Heights in 1968, and became IBM Emeritus 1993. His research interests in Frankfurt included lasers, holography, coherence, and speckle statistics. His early work at IBM was on the broadening of the picosecond pulses in laser mirrors and on the characteristics of bistable Fabry-Perot resonators. In 1971 he discovered that multilayer mirrors useful for optical instruments should be possible in the vacuum ultraviolet and soft x-ray regions and started to work on their realization. He pioneered the use of synchrotron radiation for x-ray lithography and x-ray microscopy in 1975 and has initiated the development of normal incidence soft x-ray optics for astronomy. He has used multilayer mirrors for high-resolution soft x-ray imaging and has built several x-ray telescopes. These instruments have produced x-ray images of the solar corona with the highest resolution ever obtained. He continues to work in x-ray astronomy and precision optics as an IBM Emeritus.

Dr. Spiller has written book chapters on "X-Ray Lithography" (*Topics in Applied Physics,* Vol. 22, Springer-Verlag, 1977) and "Soft X-Ray Optics and Microscopy" (*Handbook on Synchrotron Radiation,* North-Holland, 1983), organized a conference on "High-Resolution X-Ray Optics" (Proc. SPIE 316, 1981), and given numerous invited talks and lectures on topics in x-ray optics. He is a fellow of the Optical Society of America and the American Association for the Advancement of Science, and a member of the Deutsche Physikalische Gesellschaft and SPIE.

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