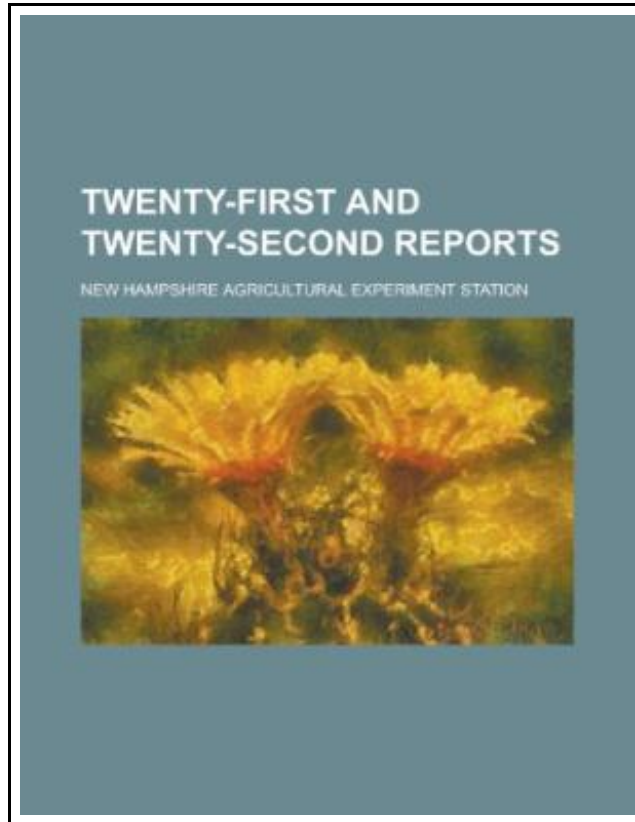


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RareBooksClub. Paperback. Book Condition: New. This item is printed on demand. Paperback. 46 pages. OCLC Number: (OCoLC)53474152 Subject: Space interferometry -- Research -- United States. Excerpt: . . . INSTRUMENT VERVIEW 2. 7. 1 I O Measuring accurate positions via interferometry reduces, for SIM, to the problem of measuring the interferometer baseline and the optical pathlength difference. The spacecraft architecture incorporates seven or eight siderostats, six of which are used at any one time with one or two redundancy spares. A switchyard allows light from any siderostat to be directed into any delay line that enables interferometer measurements at a number of different baseline lengths ranging up to 10 meters. At any one time, two of the siderostat pairs observe bright guide stars to stabilize the optical system while a third pair observes the science target. A beam combiner interferes the starlight arriving from the two siderostats in each interferometer. White light interference fringes form when the optical path-lengths of both arms are equal. To make this equalization possible, an optical delay line is added to one arm of the interferometer in order to extend or shorten the optical path of that arm as needed. Tracking the fringe corresponds to measuring the position of the delay line, which is the fundamental astrometric quantity measured by SIM. External and internal metrology gauges measure the baseline length and starlight optical path lengths. Information from the guide star internal metrology gauges and fringe detectors is used to help stabilize the science target observations, and the external metrology truss measures the orientations of the reference and science baselines with respect to each other. A summary of the key instrument and mission parameters and performance goals (see section 2. 1) is given below. Baseline 10 m Wavelength range 0. 4 - 0. 9...

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