

1.2 Specifications

1.2.1 Basic Instrument Specifications

The MOSS model ES4G is based on an optical bench supporting the goniometric mount of the ellipsometric system.

The double monochromator , the power supplies , the controller module and the computer system are on a mobile support, allowing choice of the best arrangement depending on the lab facilities.

A SOPRA patented system allows connection of the optical bench to the spectrometer.

The MOSS model ES4G permits automatic measurement of TAN (PSI) and COS(DELTA) as a function of wavelength using Hadamard transform of the photodetected signal.

A PC.AT type computer is provided to fully control the ES4G system, to make the data acquisition, to perform data reduction and to present results to the operator.

The MOSS's main software is menu driven and easy to learn.

Software routines (written in Basic 5.0) permit the experienced operator to write custom software for instrument control and data analysis.

The Wavelength isolation is achieved with a double scanning monochromator that uses one prism and one diffraction grating as dispersing elements. This arrangement affords high contrast, high dispersion and no diffraction order ambiguity throughout the