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The Applications of Ellipsometry in Modern Age by James Blee

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Science has made rapid progress and each day something new in the field is discovered. Ellipsometry is one such technique that has made working with light and thin films a lot easier. It is by and large an optical technique. And it helps to analyze the refractive index and dielectric functions of thin films. It is used vastly in biology, bio chemistry and in engineering as well when required. It can be said that it is an intricate method which has to be carried out in great details and the results are enough to make or break a research.

Ellipsometry is not just about measuring but they also give the information regarding the intensity of light. Polarization of the light, along with the various angles in which it can affect a particular surface, all these details are shown. The first of this kind of technique was used in 1888 and over the decades, it has become all the stronger so that they can easily be acclimatized by the current generation of technicians, and in the process also making it stronger for the future.

In fact, films that are too thin to be measured in nanometer can be analyzed by ellipsometry. No wonder that it is such a common sight in thin film analytical labs. In biology and medicine, it is used for in depth research and analysis, making it even more useful than the microscope in some cases these days.

The Ellipsometry is carried out with the help of an ellipsometer and that can be pretty expensive. However, sometimes they are funded by the government for state researches. All in all, possessing one can be very helpful for the research.

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