



# **X-Ray and Neutron Reflectivity: Principles and Applications (Lecture Notes in Physics Monographs)**

*Jean Daillant, Alain Gibaud*

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The reflection of x-rays and neutrons from surfaces has existed as an experimental technique for almost fifty years. Nevertheless, only in the last decade have these methods become as popular as probes of surfaces and interfaces. This is due to the convergence of several different circumstances. These include the more availability of neutron and x-ray sources that can be measured over many orders of magnitude (so many of the much weaker surface diffuse scattering of thin films and studied in some detail); growing importance of the realization of the effects in both technology research; important which in the of surfaces and role roughness plays properties interfaces; the of statistical models to characterize the of finally development topology its and its characterization from on roughness, dependence growth processes The of and to surface scattering experiments. ability x-rays neutrons study four five orders of in scale of surfaces over to magnitude length regardless their and also their to ability probe environment, temperature, pressure, etc. , makes these the choice for buried interfaces often probes preferred obtaining information about the microstructure of often in statistical a global surfaces, the local This is manner to complementary imaging microscopy techniques, of such studies in the literature witnessed the veritable by explosion published the last few Thus these lectures will be useful for over a resource years.

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