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*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 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 multibasic realization of the experiments in both technology and research; important role of surface roughness and its properties; the development of statistical models to characterize the topology of surfaces and its characterization from on roughness, dependence on growth processes. The ability of x-rays and neutrons to study four to five orders of magnitude in length scale of surfaces over to magnitude length regardless their environment, temperature, pressure, etc., makes these probes preferred for buried interfaces often obtaining information about the microstructure of global surfaces, the local. This is complementary to imaging microscopy techniques, of such studies in the literature witnessed the veritable explosion published the last few years. Thus these lectures will be useful for over a resource years.

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