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Surface Spectroscopy For Engineers and Scientists

By Jorge Lopez Gallardo

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From the Preface The world of spectroscopy began its development in the second half of the XX century and has been constantly evolving ever since. From being a set of specialized techniques available only to a few, spectroscopy in its many facets has now become a tool chest in demand by engineers and scientists of different backgrounds. Unfortunately, the physics concepts underlying the spectroscopic techniques remain in the field of physics and most users being from backgrounds other than physics learn to use commercial spectroscopy devices without ever learning much about their operational principles. In the University of Texas at El Paso, just like in many other Institutions, students from engineering and science fields come to interact with x ray fluorescence, x ray spectroscopy, Auger electron spectroscopy, to name a few, without ever taking a modern physics course that would teach them, for instance, how x rays are produced, detected or how they interact with atomic electrons. This deficiency, which can be easily remedied with a set of carefully designed lecture notes and exercises, tends to propagate into...



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