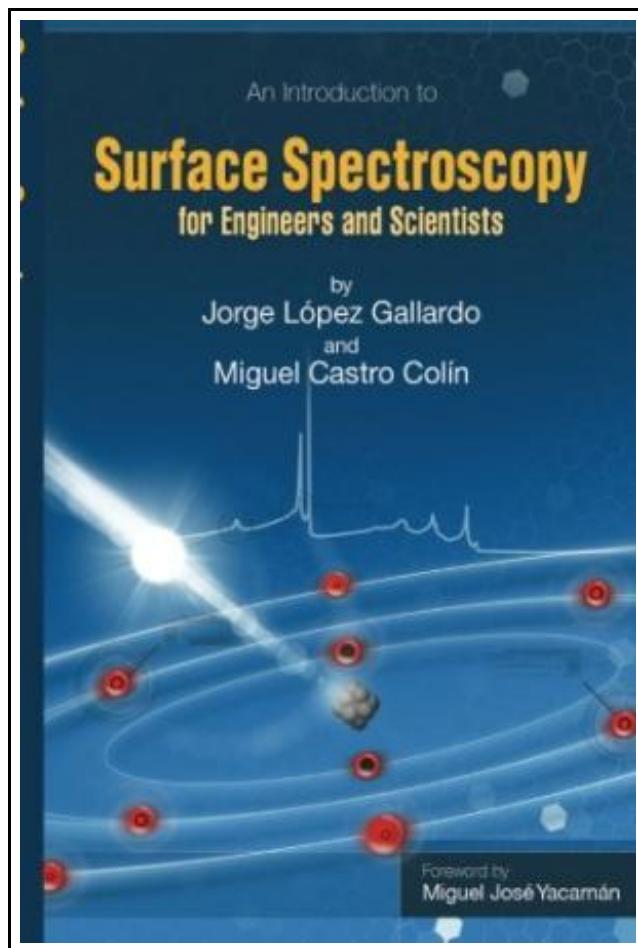


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CreateSpace Independent Publishing Platform. Paperback. Book Condition: New. This item is printed on demand. Paperback. 136 pages. Dimensions: 9.0in. x 6.0in. x 0.3in. From the Preface The world of spectroscopy began its development in the second half 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 the realm of applications turning spectroscopy into an obscure subject mastered only by experts; this needs not to be the case. It is with the goal of providing the minimum physics background needed to understand spectroscopy in its more general terms that we write these lecture notes. They are aimed at an audience of science and engineering students at the senior and graduate level, and mostly composed of chemists, geologists, metallurgists, mechanical and electrical engineers and, yes, physics students, all interested in studying materials through the use of spectroscopic tools. Assuming only a background of basic classical mechanics, electricity and...

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