

## **The Influence of The Electron Scattering Process In The Solid On The Sputtering Process**

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### ***Abstract***

In this paper, a detailed theoretical configurations interaction treatment is given with intention of describing the electron scattering in solid as well as the dynamical aspects concerning ion emission.

The most important three configurations are considered in the construction of the total wave function. While the charge conservation law is checked.

### ***Introduction***

One of the fundamental problems in the sputtering theory is the anomalies in the experimental data of  $O^-$  sputtered from vanadium and niobium surfaces which stimulated the interest of many theoretical efforts.