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Alloy sputtering is a self-regulating process.  $\hat{\epsilon}$  If the sputter yield of one species (A) is larger than the other (B), then the surface will initially be depleted of A.  $\hat{\epsilon}$  Now, since the surface has more of B, more of it will sputter off.  $\hat{\epsilon}$  An equilibrium will be reached around the stoichiometric ratio.

### **Sputtering (cont.) and Other Plasma Processes**

Develops detailed understanding of the deposition and etching of materials by sputtering discharge, and of etching of materials by chemically active discharge. Treats glow discharge at several levels from basic phenomena to industrial applications--practical techniques diligently related to fundamentals.

### **Glow Discharge Processes: Sputtering and Plasma Etching**

The inelastic processes undergone by the species in the sheath determine the energy and angular distributions of the sputtering fluxes that reach the cathode in a glow discharge, and also ...

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the VG9000 glow discharge cell at 800 V, 0.75 Torr and 4 mA (a), 114 and measured for the same cell at 750 V and 3 mA ( b ) . 114,119 ability of the models to predict the effect of the cathode

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Magnetron Sputtering Technology ... also known as a glow discharge due to the light ... sputtering process. The faster ejection rate, and hence deposition rate, minimizes impurities to form in the thin film, and the increased distance between the plasma and substrate minimizes damage caused ...

### **Magnetron Sputtering Technology - DirectVacuum.com**

$\hat{\epsilon}$  Magnetron sputtering  $\hat{\epsilon}$  Discharge characteristics  $\hat{\epsilon}$  Ion distribution at substrate  $\hat{\epsilon}$  Reactive sputtering  $\hat{\epsilon}$  Independent control of ion flux and ion energy. 3 ... B. Chapman, Glow Discharge Processes, Wiley Interscience, New York 1980. J.A. Thornton and J.E. Greene, ...

### **Lecture 3: Fundamentals of Sputter Deposition**

the glow discharge method and sputtering sources. Pre-Magnetron Sputtering DC Diode Perhaps the simplest sputtering technique is the DC diode. Figure 1 shows the basic design of a DC diode sputtering system. It consists of two electrodes enclosed in a vacuum chamber equipped with suitable pumping and gas

flow.

### **Sputtering Sources - Society of Vacuum Coaters**

diode sputtering process, progressing to a descrip- ... Magnetron sputtering overcomes these problems and has many other advantages. ... All cathodic processes require a plasma or glow discharge in order to work. The plasma may be generated by DC. or KF power. The simplest system

### **Magnetron sputtering - Penn Engineering**

Sputtering is useful when using spectroscopy to analyze the composition of the cathode, as is done in Glow-discharge optical emission spectroscopy. However, sputtering is not desirable when glow discharge is used for lighting, because it shortens the life of the lamp.

### **Glow discharge - Wikipedia**

In the basic sputtering process, a cathode made of the target material is bombarded by energetic ions generated in a glow-discharge plasma situated in front of the target, as shown in Figure 15.2. The target can be an element, alloy, compound, or their mixture.

### **Glow Discharge - an overview | ScienceDirect Topics**

glow accompanied by a voltage drop (normal glow)  $\hat{\epsilon}$  If the input power is increased further, the current density becomes uniform across the cathode and we  $\hat{\epsilon}$ ™ll be in the abnormal discharge regime. This is where sputtering operates.

### **Sputtering - WFU**

Hence, the latter processes make the glow discharge a self-sustaining plasma. The use of the glow discharge as an ion source for mass spectrometry is based on the phenomenon of sputtering. The material to be analysed serves as the cathode of the glow discharge .

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