

Faraday's Law

1. Zinc metal is plated onto an iron nail by passing electricity through an external circuit. A current of 3.75 A is applied for a period of 2.0 hours. Calculate the mass of zinc that can be plated during this time. (**9.1 g**)

2. Zinc metal is plated onto an iron nail by passing electricity through an external circuit. Calculate the current required to plate 25 g of zinc onto an iron spike during a 1.5 hour period. (**14 A**)

3. Zinc metal is plated onto an iron nail by passing electricity through an external circuit. Calculate the time in seconds that a 6.0 A current should be applied to plate 25 g of zinc onto an iron spike. (**12,000 s**)

