# 銀、銅、銦浸漬模式之建立


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**摘 要**

浸漬溶蝕是萃取金屬之其中一項重要之程序，本研究發展7種模組來尋找金屬銅、銀、銦最佳浸漬模組，有鑑於此，為了尋找銀之最佳浸漬模組，本研究所包含5種銀產量之實驗操作參數(例如：硫?的量(x1)、硫酸濃度(x2)、硫酸鐵的量(x3)、時間(x4)及溫度(x5))藉由SPSS中之非線性迴歸程序，由此來選擇合適之參數。其最佳銀之浸漬模組如下所示： YAg = 4019.996 + 4.801x1 + 67.281x2 – 996.394x3 – 821.447x4 – 61.319x5 + 0.389x1x2 – 0.369x1x3 - 0.085x1x4 – 0.007x1x5 + 99.656x2x3 + 157.718x2x4 + 4.668x2x5 + 98.479x3x4 + 16.802x3x5 + 0.003x4x5 – 0.213 – 195.521 + 1.581 – 0.049 + 0.012 本研究為了尋找銅之最佳浸漬模組，所包含4種銀產量之實驗操作參數(例如：時間(x1)、硫酸濃度(x2)、溫度(x3)及固液比(x4))藉由SPSS中之非線性迴歸程序，由此來選擇合適之參數。其最佳銅之浸漬模組如下所示： YCu = 46246.708 – 415.06x1 – 464.434x2 – 2310.728x3 – 17670.453x4+ 0.003x1x2 + 20.75x1x3 + 0.289x1x4 + 23.241x2x3 – 0.175x2x4+ 883.124x3x4 本研究為了尋找銦之最佳浸漬模組，本研究所包含4種銀產量之實驗操作參數(例如：硫酸濃度(x1)、時間(x2)、溫度(x3)及固液-vi 比(x4))藉由SPSS中之非線性迴歸程序，由此來選擇合適之參數。其最佳銅之浸漬模組如下所示： YIn = -6319.749 + 18505.903x1 – 2749.898x2 + 1507.104x3 – 1738443.85x4 + 5.104x1x2 – 0.04x1x3 – 925538.343x1x4 + 74.725x2x3 – 123439.087x2x4 + 39824.59x3x4 + 0.077 – 2.571 – 24.507 - 1375.452



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