

# 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： $Y_{Ag} = 4019.996 + 4.801x_1 + 67.281x_2 - 996.394x_3 - 821.447x_4 - 61.319x_5 + 0.389x_1x_2 - 0.369x_1x_3 - 0.085x_1x_4 - 0.007x_1x_5 + 99.656x_2x_3 + 157.718x_2x_4 + 4.668x_2x_5 + 98.479x_3x_4 + 16.802x_3x_5 + 0.003x_4x_5 - 0.213 - 195.521 + 1.581 - 0.049 + 0.012$  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： $Y_{Cu} = 46246.708 - 415.06x_1 - 464.434x_2 - 2310.728x_3 - 17670.453x_4 + 0.003x_1x_2 + 20.75x_1x_3 + 0.289x_1x_4 + 23.241x_2x_3 - 0.175x_2x_4 + 883.124x_3x_4$  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： $Y_{In} = -6319.749 + 18505.903x_1 - 2749.898x_2 + 1507.104x_3 - 1738443.85x_4 + 5.104x_1x_2 - 0.04x_1x_3 - 925538.343x_1x_4 + 74.725x_2x_3 - 123439.087x_2x_4 + 39824.59x_3x_4 + 0.077 - 2.571 - 24.507 - 1375.452$

關鍵詞：

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