

Ronald Klepper: SOLID-LIQUID SEPARATION (EQUIPMENT, PARTICLE SIZE CONTROL, AND STABILITY)

Solid-liquid separation equipment selection and performance to remove iron from hydrometallurgical processes in the form of various iron precipitates such as iron hydroxide, goethite, jarosite, hematite, etc. will be reviewed. Influence and control of particle size and composition of precipitated iron will be reviewed in the selection of gravity thickeners and clarifiers, gravity and pressure granular media filters, and vacuum and pressure filters. Flowsheets of processes to produce alumina, cobalt, copper, nickel, and zinc will be reviewed identifying various process options using for removing iron as an impurity.