

# Metalurgia Extractiva de Tierras Raras

## Extractive Metallurgy of Rare Earths

Fathi Habashi,

*Department of Mining, Metallurgical,  
and Materials Engineering, Laval University*

### Resumen

Debido a su estructura electrónica los elementos de las tierras raras tienen un comportamiento químico similar. Por lo tanto antiguamente ningún método de separación química era adecuado y se utilizaron solamente métodos físicos para separar sus sales. Inicialmente la cristalización fraccionada fue el único método utilizado por los primeros investigadores. Más tarde, se aplicaron el intercambio iónico y la extracción con solventes. Las tierras raras no son ni raras ni tierras. La industria comenzó en Viena (Austria) por Carl Auer von Welsbach a finales del siglo XIX, con la producción de capas de gas para el alumbrado. Fue el inicio de su uso, luego se ha desarrollado en nuevas direcciones para convertirse en materia prima para la actual alta tecnología.

### Abstract

Due to their electronic structure the rare earth elements have similar chemical behavior. As a result no chemical method of separation was available and only physical methods were used for separating their salts. Initially fractional crystallization was the only method used by the pioneer researchers. Later, ion exchange and solvent extraction were successfully applied. The rare earths are neither rare nor they are earths. The industry started in Vienna, Austria by Carl Auer von Welsbach at the end of the 19th century to produce gas mantles for lighting streets. It then prospered in new directions to become essential for today's high technology.

### INTRODUCTION

Originally, the term rare earths was only used for the oxides,  $R_2O_3$ , which are similar to one other in their chemical and physical properties and are therefore difficult to separate. Within the rare earth group, the elements scandium, yttrium, and lanthanum differ in their atomic structure from the elements cerium to lutetium (the lanthanides, Ln). Scandium occupies a special position with respect to this classification and its other properties, and therefore does not belong to either of these groups. The rare earth elements always occur in nature in association with each other. The isolation of groups of rare earth elements or of individual elements requires costly separation and fractionation processes owing to the great similarity of the chemical and physical properties of their compounds, which explains why the history of their discovery has extended for about two hundred years.

The word "rare", when used to describe this group of elements, originates from the fact it was thought that these elements could only be isolated from very rare minerals. Considering their abundance in the Earth's crust, the term rare is now inappropriate. These elements are lithophilic and are therefore concentrated in oxidic compounds such as carbonates, silicates, titanio-tantaloniobates, and phosphates.

The abundance of the rare earth elements taken together is quite considerable. Cerium, the most common rare earth, is more abundant than cobalt. Yttrium is more abundant than lead, whereas Lu and Tm are as abundant as Sb, Hg, Bi, and Ag. Promethium does not occur in nature. It forms only in nuclear reactors.

# Extractive Metallurgy Of Rare Earths

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