



Which Way To Freedom

Arturo Cuomo



Which Way To Freedom:

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elements with atomic numbers 57 70 from lanthanum through ytterbium 2 3 4 lutetium is also sometimes considered a
lanthanide despite being a d block element and a transition metal

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other atoms as a result of this ionicity they can be classified as hard strongly acidic cations this hard acid nature is evident
whether we consider the bonds between lanthanide cations with oxygen nitrogen or halogen

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lanthanum to lutetium the lanthanide series is the group of elements in which the 4f sublevel is being filled all of these
elements are metals specifically transition metals they share several common properties

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that tarnishes the surface for this reason these metals are stored under mineral oil the remainder of the lanthanides are not
as reactive and some gd lu retain their silvery metallic appearance for a long time

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10 5 versus 0 79 10 5 by mass

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web the fifteen elements shown in table pageindex 1 from lanthanum La 4f 0 to lutetium Lu 4f 14 are lanthanoids Ln may be used as a general symbol for the lanthanoid elements although lanthanoids scandium Sc and yttrium Y are sometimes called rare earth elements they are relatively abundant in the earth's crust

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