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A first principle is a basic assumption that cannot be deduced any further. Over two thousand years ago, Aristotle defined a first principle as "the first basis from which a thing is known."4. First principles thinking is a fancy way of saying "think like a scientist." Scientists don't assume anything.

First Principles: Elon Musk on the Power of Thinking for ...

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Chemistry from First Principles | Jan C. A. Boeyens | Springer

Chemistry from First Principles Jan C. A. Boeyens The book consists of two parts: A summary and critical examination of chemical theory as it developed from early beginnings through the dramatic events of the twentieth century, and a reconstruction based on a re-interpretation of the three seminal theories of periodicity, relativity and quantum mechanics in chemical context.

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A first principle is a basic proposition or assumption that cannot be deduced from any other proposition or assumption. In philosophy, first principles are from First Cause attitudes and taught by Aristotelians, and nuanced versions of first principles are referred to as postulates by Kantians. In mathematics, first principles are referred to as axioms or postulates.

First principle - Wikipedia

The textbook, 'First principles of chemistry', was accompanied by a laboratory manual entitled 'Laboratory exercises to accompany first principles of chemistry and also by a teachers' guide for the textbook and a teachers' guide for the practical manual. Additionally, a small volume of review exercises was published for students.

First Principles of Chemistry (Classic Reprint): Brownlee ...

Origins of the peroxidase mimicking activities of graphene oxide from first principles ... College of Chemistry and Chemical Engineering, Jiangxi Normal University, Nanchang 330022, China E-mail: gaoxj@jxnu.edu.cn. Abstract. Graphene-based nanomaterials, including graphene oxide (GO) and reduced graphene oxide (rGO), play key roles in the ...

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First principles calculations are employed to provide a fundamental understanding of the relationship between the reactivity of synthetic calcium silicate phases and their electronic structure. Our aim is to shed light on the wide range of hydration kinetics observed in different phases of calcium silicate.