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The elastic constants of zinc are compiled and reviewed; one hundred references are cited. The included elastic constants are: Young's modulus, shear modulus, bulk modulus, compressibility, Poisson's ratio, second-order single-crystal elastic stiffness and compliances, and third-order elastic stiffness. Temperature and elastic-anisotropy effects are also reviewed. Other topics are: sound velocities, elastic Debye temperatures, Cauchy relationships, elastic stability, pressure effects, and theoretical studies. New polycrystalline data are computed from single-crystal data by means of averaging methods.

Key words: Bulk modulus; compressibility; Debye temperature; elastic constants; Poisson's ratio; shear modulus; single-crystal elastic coefficients; sound velocities; Young's modulus; zinc.

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1. Introduction

Previous reports in this series discussed elastic properties of iron, nickel, and iron-nickel alloys [1]¹ and copper [2]. Reference 1 also discusses some solid-state-elasticity concepts that are relevant here, including: crystal physics and thermodynamics; temperature effects; relationships between elastic constants and other physical properties, especially the elastic Debye temperature; and relationships between single-crystal and polycrystal elastic constants.

The purpose here is to present a compilation and a review of elastic properties of zinc. One hundred scientific and engineering publications are cited. Both single-crystal and polycrystal elastic constants are considered together with effects of familiar metallurgical variables on the constants.

Zinc is used widely technologically. Some better-known applications include: galvanized iron and steel, die cast-

ings, solders, and alloys. Brasses (zinc-copper alloys) are perhaps the best-known and most useful zinc alloys. Properties and applications of both zinc and its alloys are summarized elsewhere [3].

The first reasonably comprehensive review of anisotropic elastic-constant measurements, by Hearman [4] in 1946, cited only three hexagonal metals: cadmium, magnesium, and zinc. But, hexagonal-metal elastic-property studies have proliferated in recent years. Hearman's [5] more recent review in 1969 cites sixteen hexagonal metals. Except for magnesium, and perhaps beryllium, zinc has received more experimental study than other hexagonal metals. Magnesium has been studied extensively theoretically because its axial ratio is nearly ideal and because it is nearly elastically isotropic. As discussed below, a nonideal axial ratio and a high elastic anisotropy make zinc studies more interesting but also more difficult.

2. Zinc as a Metal

Zinc seems at first to be a relatively simple metal with a relatively low atomic number (thirty). Its electronic

¹ Figures in brackets indicate literature references at the end of this paper.

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Marco Cascella



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buffers typically consist of an acid base pair with the acid and base differing by the presence or absence of a proton a conjugate acid base pair for instance one of the buffers that maintain the ph of human blood involves carbonic acid H_2CO_3

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the reaction of an acid and a base is called a neutralization reaction although acids and bases have their own unique chemistries the acid and base cancel each other's chemistry to produce a rather innocuous substance water in fact the general reaction between an acid and a base is acid + base → water + salt

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capitolo i profili introduttivi le origini e gli sviluppi più recenti del welfare aziendale 1 1 un breve excursus storico sulla nascita del welfare pubblico il termine stato sociale o utilizzando l espressione inglese welfare state significa letteralmente stato di benessere lo stato sociale si assume infatti l onere di garantire

l evoluzione del welfare aziendale in italia con indagine doxa - Jul 18 2023

punto di partenza un quesito semplice e allo stesso tempo decisivo perché cresce la domanda di welfare aziendale il libro

inoltre presenta la terza edizione dell'indagine doxa per edenred sullo stato del welfare aziendale in italia nel 2016