

Structural and magnetic properties of BCC Fe/Co (001) superlattices

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Received 26 November 2001; received in revised form 28 February 2002

Abstract

In thin layered Fe/Co (001), grown on MgO (001), both Fe and Co crystallize in the body-centered cubic (BCC) structure, as seen in a series of superlattices where the layer thickness of the components is varied from two to twelve atomic monolayers. These superlattices have novel magnetic properties as observed by magnetization and polarized neutron reflectivity measurements. There is a significant enhancement of the magnetic moments of both Fe and Co at the interfaces. Furthermore, the easy axis of the system changes from [1 0 0] for films of low cobalt content to [1 1 0] for a Co content exceeding 33%. No indication of a uniaxial anisotropy component is found in any of the samples. The first anisotropy constant (K_1) of BCC Co is found to be negative with an estimated magnitude of 110 kJ/m³ at 10 K. In all cases, the magnetic moments of Fe and Co have parallel alignment. © 2002 Elsevier Science B.V. All rights reserved.

1. Introduction

Thin magnetic films are well known to exhibit features not observed in bulk materials. Structures are stabilized so that in the bulk they are thermodynamically unstable. One example is the stabilization of thin films of single-crystalline body-centered cubic (BCC) cobalt. A fair amount of work, both from the experimental and theoretical standpoint, has been done on BCC Co in the form of thin films and multilayers [1–4]. The magnetic properties as determined in different studies are not entirely consistent. The reported

magnetic moment per Co atom varies and the magnetic anisotropy energy has been found complex, sometimes including cubic and uniaxial terms both in-plane and out-of-plane [1–3,5,6]. Several studies have been made of the magnetic anisotropy energy in BCC Fe/Co (iron/cobalt) multilayers. Magnetization measurements on [Fe(14–55 Å)/Co(19 Å)]₂₀ and [Fe(25 Å)/Co(6–42 Å)]₂₀ on MgO (001) implied an in-plane anisotropy and it was also noted that the hysteresis loops showed characteristics of a two-component system [7]. Perturbed angular correlation (PAC) measurements on different Fe/Co multilayers on MgO (001) showed that [1 1 0] was the easy axis of magnetization [8,9]. First principles calculations suggest that [1 1 1] is the easy direction for BCC

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Wolfgang Donner



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web mar 1 2022 1 choose a recipe and fragrance if you are a beginner the simplest way to start is to purchase a soap base a pre mixed combination of the soap glycerin and a few add ins like plant

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web nov 17 2019 they re to help and instruct you to make natural handmade soap from the comfort of your own kitchen the collection of free soap recipes below use natural ingredients such as essential oils herbs and clays some also include soap making videos to help you make the recipe successfully

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web nov 7 2022 1 melt and pour soap pros no handling of lye required easy and quick can be made with kids can be used right away reliable no curing time no safety gear necessary can be made in minutes