

Guimarães, Alberto P. 1939-

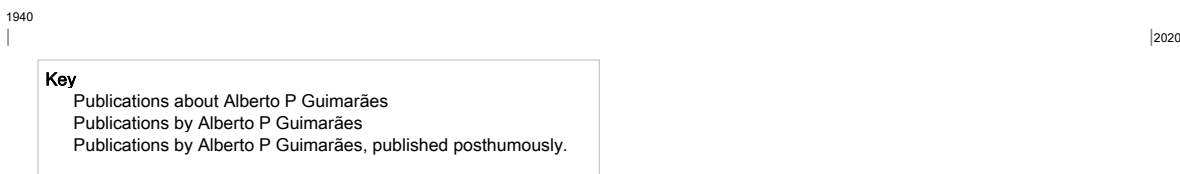
Overview

Works: 41 works in 93 publications in 5 languages and 1,155 library holdings

Genres: [History](#)

Roles: [Autor](#), [htt](#), [Contribuinte](#), [Outro](#)

Publication Timeline



Most widely held works by Alberto P Guimarães

Principles of nanomagnetism by Alberto P Guimarães ([file](#))

34 editions published between 2009 and 2018 in Inglês and Alemão and held by 574 libraries worldwide
Deals with the novel field of Nanomagnetism, the study of magnetic samples that have at least one dimension in the nanoscopic range. This book emphasizes general principles and mechanisms that are relevant for the understanding of the intriguing properties of nanomagnetic objects, including thin films, nanoparticles, nanodisks and nanorings

From lodestone to supermagnets : understanding magnetic phenomena by Alberto P Guimarães ([Livro](#))

9 editions published in 2005 in Inglês and Russo and held by 291 libraries worldwide
"This easily accessible description charts the historical development of magnetism - dating back some three thousand years. Alberto P. Guimaraes starts with the Greeks, with the first records of magnetism, and ends with hard disks and magnetic resonance imaging."--BOOK JACKET

Magnetism and magnetic resonance in solids by Alberto P Guimarães ([Livro](#))

7 editions published in 1998 in Inglês and held by 229 libraries worldwide

Principles of Nanomagnetism by Alberto P Guimarães ([file](#))

1 edition published in 2009 in Inglês and held by 14 libraries worldwide

Magnetic materials : from lodestone to supermagnets : understanding magnetic phenomena by Alberto P Guimarães ([Livro](#))

3 editions published in 2005 in Inglês and held by 4 libraries worldwide

Nuclear methods in magnetism : proceedings of the Conference on Nuclear Methods in Magnetism (NMM 2000), 2-4 August 2000, Rio de Janeiro ([Livro](#))

1 edition published in 2001 in Inglês and held by 3 libraries worldwide

Multistep switching phase diagram of ferromagnetic ring structures by Mathias Kläui ([file](#))

2 editions published between 2004 and 2011 in Inglês and held by 3 libraries worldwide

Nuclear methods in magnetism : proceedings of the Conference on Nuclear Methods in Magnetism (NMM 2000), 2-4 August, 2000, Rio de Janeiro by Conference on Nuclear Methods in Magnetism ([Livro](#))

3 editions published in 2001 in Inglês and held by 2 libraries worldwide

Quatro séculos de latifúndio by Alberto Passos Guimarães ([Livro](#))

1 edition published in 1968 in Português and held by 2 libraries worldwide

Propriedade e pré-história; O regime econômico colonial: feudalismo ou capitalismo?; A sesmaria; Engenhos e fazendas; O latifúndio cafeeiro; Formação da pequena propriedade: intrusos, posseiros, da colonização ao minifundismo; A crise do sistema latifundiário; As crises de superprodução e as transformações capitalistas; A estrutura agrária no século XX; Depois de 1964

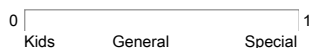
Effets de basse dimensionnalité et de la frustration magnétique dans les composés du type AB₂O₆ by Marlon Luiz Hneda ([file](#))

1 edition published in 2016 in Francês and held by 2 libraries worldwide

This thesis comprises a study of the compounds of AB₂O₆ type that have attracted wide interest in recent years due to their low-dimensional magnetism properties. To better understand their magnetic properties and the parameters that influence it, we have relied on a good knowledge of the crystal structure. All samples were studied by X-ray diffraction (ambient pressure or under high pressure) and neutron diffraction (low and/or high temperature). We also performed other characterisations, such as magnetic susceptibility, specific heat and Mössbauer spectroscopy measurements. We have produced the MnNb_{2-x}V_xO₆ serie in order to vary the distances between magnetic interchains and thus the nature of the exchange interactions. These compounds are interesting due to the presence of low anisotropy and a coupling of magnetic moments in zigzag chains along the c-axis, which gives them a one-dimensional character, and an antiferromagnetic coupling between chains. We made a comparison with the theoretical model of the classical Heisenberg chain and obtained the exchange constants intra- and interchain, J and J', and its dependency on the content x. Then we made a study of MnxA_{1-x}Nb₂O₆ compounds with A = Fe, Co and Ni. Our aim was to check how the nature and the difference in atomic radii can influence the structural and magnetic properties of these compounds. For compounds which showed no magnetic ordering at 1.5 K we made a study of correlations at short distances using Bertaut's model. Thanks to the use of HP and HT synthesis we manage to stabilize MnV₂O₆ in orthorhombic symmetry and determine its physical properties. We then performed a comparison with the monoclinic MnV₂O₆ and with the orthorhombic MnNb₂O₆ compound as well. Macroscopic magnetic behaviour of isostructural compounds are very similar but in the case of MnNb₂O₆, the magnetic moments form + - + - type chains while the MnV₂O₆ presents chains of + + - - type, a structure never observed before in this family of compounds

[more▼](#)

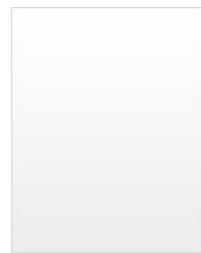
Audience Level



Audience level: 0.57 (from 0.53 for *Multistep ...* to 0.99 for *Nuclear me ...*)

Related Identities

[Oliveira, Ivan S.](#) [Autor](#) [✚](#)



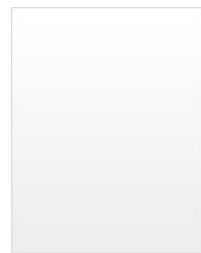
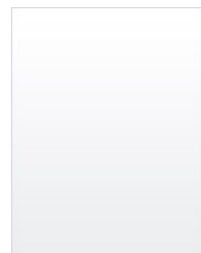
Alternative Names










Alberto Passos Guimarães
Filho brasilianischer
Physiker
Alberto Passos Guimarães
Filho Brazilian physicist
(1939-1993)
Alberto Passos Guimarães
Filho físico brasileiro
Alberto Passos Guimarães
Filho físico brasileiro
Alberto Passos Guimarães
Filho físico brasileiro
Alberto Passos Guimarães
Filho físico brasileiro
Alberto Passos Guimarães
Filho físico brasileiro
Guimarães, A. P. 1939-
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Guimarães, A. P. (Alberto
Passos)
Guimarães, A. P. (Alberto
Passos), 1939-
Guimarães, Alberto P.
Guimarães, Alberto P. 1939-
Guimarães, Alberto Passos,
1939-
Guimarães Filho, Alberto
Passos, 1939-
Passos Guimarães, Alberto
Passos Guimarães, Alberto
1939-

Languages

[Inglês](#) (61)
[Português](#) (7)
[Alemão](#) (1)
[Francês](#) (1)
[Russo](#) (1)

Covers



- [Centro Brasileiro de Pesquisas Físicas](#) 
- [Silva, X. A. da](#) 
- [Iannarella, L.](#) Autor 
- [Gomes, Antônio Augusto](#) Autor 
- [Conference on Nuclear Methods in Magnetism <2000, Rio de Janeiro>](#) 
- [Vaz, Carlos A. F.](#) Contribuinte 
- [David, Christian](#) Contribuinte 
- [International Conference on Magnetism <15, 2000, Recife>](#) 
- [Sinnecker, E. H. C. P.](#) Contribuinte 

Useful Links

- [Library of Congress Authority File \(English\)](#)

Associated Subjects

Agriculture--Economic aspects Brazil
Engineering Land tenure Latifundio Magnetic materials Magnetism Nanostructured materials Nanostructured materials--Magnetic properties Nanotechnology Nuclear magnetic resonance Physics Science Solids--Magnetic properties