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The connection between the symmetry operators and the symmetry of macroscopic property tensors is examined and this connection is
formalized by the use of generating matrices. By way of example, the

**macropscopic symmetry in space-time**

This study analyzes political polarization among the South Korean elite by examining 17 years’ worth of subcommittee meeting minutes from the South Korean National Assembly's standing committees. Its

**elite polarization in south korea: evidence from a natural language processing model**

In Chapters 3 and 4, theoretical models have been developed to analyze the modal profile and polarization, respectively, of VCSELs. The most popular structure of VCSELs is a cylindrical symmetric

**chapter 4.2.2 - modeling of self- and cross-gain saturation coefficients**

Electromagnetic induction is where a voltage or current is produced in a conductor by a changing magnetic flux. It may happen when a magnet is moved in a solenoid, thus changing the magnetic

**flux. If**

**electromagnetic induction**

This chapter highlights areas of interest related to magnetic resonance (MR) technology and its applications, particularly applications that involve dynamic magnetic resonance imaging (MRI). Among the

**mathematics and physics of emerging biomedical imaging**

Unlike currently available methods, sophisticated hardware for modulating the polarization of light illuminating the sample is not required. Additional polarization optics may be inserted in the

**determining the rotational mobility of a single molecule from a single image: a numerical study**

In isotropic materials without optical activity, the permittivity tensor can be broken down to transverse and magnetic flux density, magnetic moments, and current. In acoustics, especially in
spatial dispersion
In the first case, the most immediate implication would be a degree of linear polarization for the tensor vacuum fluctuations, which could be seen by gravity-wave detectors sensitive enough to probe

prof joao magueijo
One of them is the neglect of polarization dipole moments of N polarizable atoms for a given configuration of the system can be obtained by solving the following linear system of equations.

hybrid quantum mechanical/ molecular mechanical simulation of enzymatic reaction with the drude oscillators polarizable force field

ellipsoidal harmonics
The development of cross polarization, heteronuclear radiofrequency decoupling, and coherent averaging of nuclear spin interactions has provided measurement of chemical shift tensors in solids.

osti.gov technical report: hydrogen and deuterium nmr of solids by magic-angle spinning
The usual theory of g values cannot be applied to molecules as it is not gauge-invariant. Dirac’s wave equation is used to derive a gauge-invariant theory, and a general expression is obtained for the
gauge invariance of the g tensor
This program has been established only recently and is far from complete. The best understood example consist of the symmetric tensor gauge theories, whose geometric nature can be understood in terms
space-dependent symmetries and fractons
Sustainable Engineering Program (SEP) aims to train “highly educated, internationalized engineers” having a wide spectrum of technical knowledge from fundamentals to their applications. Degree