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Oct 13, 2009 James T. Gleeson, Samuel Sprunt. Department In order to connect the dielectric increment with the molecular theory of (calamitic) nematics [25], the sign .. [22] J. McConnell, Rotational Brownian motion and dielectric.

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Jul 21, 2014 with the nature of the motions informed by ab initio molecular dynamics. We investigate the temperature and static electric field dependence

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When the rotational Brownian motion is spherically isotropic, The theory of dielectric relaxation in a model polar liquid is developed and applied to experimental

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Journal of Statistical Physics, VoL 28, No. 2, 1982 Book Review: Rotational Brownian Motion and Dielectric Theory Rotational Brownian Motion and

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Mar 24, 2006 Sphere diffusion constants in water at room temperature are  $1.1 \cdot 10^{-7}$  between the glass and water interfaces has complex dielectric constant, 2. from quasistatic semiclassical infinite barrier (SCIB) theory (27). .. Rotational motions of macromolecules by single-molecule fluorescence microscopy.

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James Robert C. McConnell (born Dublin 1915; died 1999) was educated at O'Connell Schools, Dublin, Rotational Brownian motion and Dielectric Theory.

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The rotational Brownian motion of a linear molecule and its be obtained by any simple transformation of the dielectric response unlike rotation in two

## **Reviews of topical problems: rotational brownian**

Rotational Brownian motion: Authors: Abstract A survey of the , dielectric relaxation, and the Rayleigh scattering of light.

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Influence of surface charges of biopolymer macromolecule on its rotational Brownian dynamics in solutions is considered in terms of dielectric friction and

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Brownian motion or pedesis (from Greek: Brownian tree; Rotational Brownian motion; Complex system; Continuity equation; Diffusion equation; Geometric Brownian motion;

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Lewis and others?Relaxation effects in rotational Brownian motion 45 This is a purely kinematical relation with no particular reference to Brownian motion

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Rotational Brownian motion: Volume 16 determination of the nature of Brownian rotation by the use of nuclear magnetic resonance, dielectric

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Abstract. On the basis of the rotational Brownian motion equation, we have analyzed the dielectric relaxation phenomena in Langmuir films, assuming that the

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In the early stages of the motion it maintains no-slip contact with both rails. .. [13 ] James McConnell. Rotational Brownian Motion and Dielectric Theory.

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Title: Rotational Brownian motion and dielectric relaxation of polar molecules subjected to a constant bias field: Exact solution: Authors: Waldron, J. T.; Kalmykov

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The theory of rotational Brownian motion allows one to calculate the net result of these two competing effects, and to predict how the permittivity of a dielectric material depends on the strength and frequency James Robert McConnell ( 1980).

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Mar 24, 2010 Peter Salamon, Nandor ber, Agnes Buka, Jim T. Gleeson, Samuel N. Sprunt, and Antal Jakli the Maier-Meier molecular theory of calamitic nematics .. 23 J. McConnell, Rotational Brownian Motion and Dielectric. Theory

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Sack's discussion of the rotational Brownian motion of a spherical polar A lengthy study of inertial effects in dielectric relaxation processes was made

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James McConnell. Dublin Institute for Advanced Studies, Dublin 6); J. McConnell. Rotational Brownian Motion and Dielectric Theory. Academic Press, London

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This chapter treats rotational diffusion in the The solutions are discussed and their relevance to dielectric phenomena in Brownian Motion. Published in

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motions in general (e.g., light scattering, dielectric relaxation, The inverse of  $\tau_2$  is proportional to the rotational diffusion coefficient(0) and is an .. The theory and methodology of the use of nitroxide spin labels in conventional (7, 52) .. John Gergely, Lubert Stryer, Harden McConnell, Robert Mendelson, James Hyde, and.

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Group Theory : Groups, group of residue classes, cyclic group, order of a group . Particle. Dynamics: Effect of drag forces on motion: Applications of Newton's Laws. . Electrostatics, Dielectric Materials, Electric Polarization, Charge and Current James W. Dally, William F. Riley and Kenneth G. McConnell, (1988),.

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{Rotational Brownian motion of a massive binary}, journal = {Astrophys. J}, year = {2002} Rotational Brownian Motion and Dielectric Theory

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