Dynamic Nuclear Orientation

Abstract

The solid state aspects of *dynamic nuclear orientation* are considered and some attention is given to the experimental techniques and results obtained. The discussion is limited primarily to solids at low temperatures. Descriptions and characteristics are given of the equipment used in *dynamic orientation* processes. Methods discussed for dynamic *nuclear orientation* include transient methods, paramagnetic resonance saturation, ferromagnetic and antiferromagnetic resonance saturation, orientation by hot conduction electrons, and *acoustic* excitation. Experiments reviewed and discussed are for the low temperature *dynamic nuclear orientation* of radioisotopes, dipolar coupling orientation, nuclear cooling, and Overhauser effect in metals, semiconductors, and free radicals, (N.W.R.) [https://www.osti.gov/biblio/4843469](https://www.osti.gov/biblio/4843469)

See Also

Atomic Cluster Nuclear Fusion
Chapter X - Examples of Dynamic Mentation
Chapter XI - Dynamic Individuality
dynamic
Dynamic energy
Dynamic nuclear polarisation
dynamics
Dynamics of Mind
Figure 1.4 - Dynamical Full Gamut of Mind and Matter
Figure 1.5 - Full Dynamical Gamut of Mind and Matter
Figure 13.05a - Complex Vortex Rotational Dynamics
Figure 17.01 - Dynamical Gravitative Centers
Figure 3.3 - Orthogonal Structure and Dynamics
Figure 4.12 - Keelys Formative Structural Dynamic Morphology
Figure 5.11 - Dynamics and Development of Circulating Contractive Ring on One Axis
Figure 6.10 - Wave Dynamics between Cube Corners
Figure 8.1 - Russells Painting of Wave Form Dynamics
Figure 9.3 - Some Neutral Center Dynamics
Figure 9.7 - Two Centers Showing Complex Attraction Dynamics
First Law of Thermodynamics
Hydrodynamic Expansion
hydrodynamics
Law of Assimilation - The Foundation Dynamic of All That Is
LAW OF THERMODYNAMICS
Laws of Thermodynamics
Neutral Center Dynamics
nuclear fission
Nuclear Orientation
nuclear physics
One Balanced Whole and Two Reciprocating Dynamics
photonuclear reaction
QED quantum electrodynamic vacuum
quantum chromodynamics
quantum electrodynamics
Russells Laws of Thermodynamics
Second Law of Thermodynamics
SVP physics and dynamics
The Nature and Dynamics of Vibration and Toroids
There is But One Dynamic Force 58a
thermodynamics
Third Law of Thermodynamics
13.08 - Atlins Neutral Center Structure and Dynamics
19.05.01 - From The Dynamic Theory of Life and Mind - Radiometer Motion
3.23 - Hydrodynamic Equations - Vortex Motions
4.10 - Component Dynamics of Quantum Construction
8.32 - Electroacoustic Thermodynamic Transduction
9.16 - Neutral Center Dynamics
9.21 - Dynamic Centers