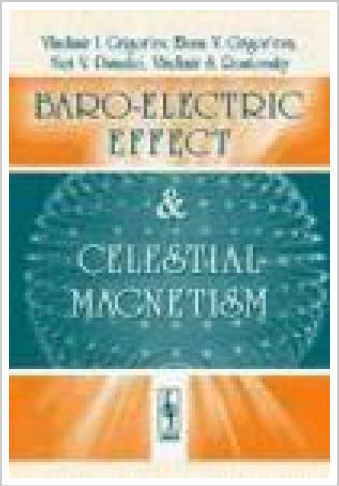

Baro-electric effect and celestial magnetism

By Grigor'ev,Vladimir I., Grigor'eva, Elena V., Pisanko, Yuri V., Rostovsky, Vladimir S.

Editorial URSS, 2005. soft. Book Condition: New. Encuadernación: rústica The nature of the terrestrial magnetism has been creating a problem in geophysics. This book is devote to the elaboration of the Sutehrland hypothesis of the phenomenon proposed in 1903 and almost forgotten now. He supposed in 1903 and almost forgotten now. He supposed the electric charge redistribution in a celestial body under the action of inhomogeneous mechanical stresses (reaction against gravity) and the magnetic field moment resulted from the axial rotation of the charged body. In this book the effect is estimated quantitatively from the quantum theory point of view among others. To describe the magnetic field, generatd because of the axial roation of electrically charged object, electrodynamics of slowly rotating obsever is developed. Presented are the estimates of planetary electric and magnetic fields created due to both its internal self-gravitation and external tidal influences. The contribution of the effect into the main geomagnetic field is estimated as approximately 10%. Teh contribution into the magnetic moments of giant planets is larger. Also considered are other posible geophysical manifestations of the effect including specific properties of the fair weather electricity and possible eartquake forerunners.

Reviews

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