



Calculate technology of the Earth's magnetic field power and angular components

M. Orlyuk, A. Marchenko, B. Srebrov

To solve a range of magnetology, geophysics and navigation tasks it is necessary to know not only induction scalar of the Earth's magnetic field, but also full values of its northern B_x , eastern one B_y , horizontal B_H and vertical B_z components as well as angle of its declination D and angle of its inclination I . The internal Earth's magnetic field is the vector sum of nucleus field (main magnetic field) B_0 and anomalous magnetic field δB . Power and angular components calculating algorithm and program-algorithmic software is introduced. Digital maps of the Earth's normal magnetic field components B_0 , B_{0x} , B_{0y} , B_{0z} , D , I and anomaly component δZ for Bulgarian territory are created. Earth's magnetic field power and angular components and their dynamics are calculated with using these data.

Изчислителна технология за определяне енергията на земното магнитно поле и неговите ъглови компоненти

M. Орлюк, А. Марченко, Б. Сребров