

INTISARI

Telah dibuat program pemodelan anomali magnetik total dengan pendekatan benda berbentuk prisma 3 dimensi untuk kasus N anomali benda. Penulisan program pemodelan dengan menggunakan bahasa pemrograman *Formula Translator* (Fortran).

Anomali magnetik total dihitung dengan memasukkan data sintetis ke dalam program pemodelan. Kontur anomali digambarkan dengan menggunakan program Surfer 5.1, kemudian dibuat *profile* anomali magnetik totalnya.

Berdasarkan interpretasi anomali magnetik total hasil pemodelan yang dilakukan secara kualitatif grafis, didapatkan karakteristik dari anomali magnetik total benda prisma 3 dimensi. Karakteristik tersebut sesuai dengan hasil uji program yang menggunakan program inversi magnetik 3 dimensi, dan data sintetis magnetik 3 dimensi.



ABSTRACT

It has been made a total magnetic anomalies modelling program with the approximation of prism-shaped body for the case of N anomalous bodies. The modelling program was executed by Formula Translator (Fortran) programming language.

The magnetic anomalies were calculated by inserting synthetical data to the modelling program. The anomaly Contours were displayed by Surfer 5.1 program, and the profiles of total magnetic anomalies were made respectively.

Based on the graphical qualitative interpretation of total magnetic anomaly profiles as the result of the conducted modelling, it was obtained the characteristics of total magnetic anomaly of prism-shaped body. Those characteristics appropriate with the result of trial program using 3D magnetic inversion program, and the synthetical 3D magnetic data.

