INTISARI

Telah dilakukan perancangan dan pembuatan alat baca dosis radiasi pada detektor film badge dengan menggunakan komputer. Sebagai penghubung antara alat dan komputer dengan digunakan port printer.

Pengujian alat dilakukan dengan membandingkan dosis paparan yang terbaca oleh alat ukur dengan dosis paparan pada film badge yang diketahui dosisnya.

Dari pengujian secara keseluruhan alat mampu mengukur dosis dari 75 mR sampai dengan 1000 mR dengan kesalahan 5,65 %. Untuk dosis dibawah 75 mR alat memberikan kesalahan sekitar 50 % dari nilai sebenarnya.

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ABSTRACT

It has been done a manufacture for radiation dose tools using film badge detector with computer. Port parallel printer adapter used as interface between tool and computer.

Examination for the tool was done by comparation of the radiation dose in tool with the exposure dose at badge film with known its exposure dose.

This research give measurement from dose 75 mR to 1000 mR as result with 5,65 % error. For dose under 75 mR, this instrument make 50 % error from real value.

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