

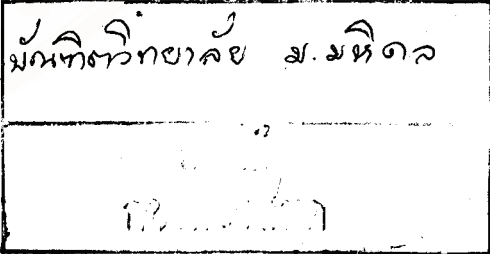
COMPUTER CALCULATION OF COBALT-60
TELE THERAPY PLANNING

BY

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A THESIS SUBMITTED IN PARTIAL FULFILLMENT OF
THE REQUIREMENT FOR THE DEGREE OF
MASTER OF SCIENCE
(MEDICAL PHYSICS)



IN THE
FACULTY OF GRADUATE STUDY
OF
MAHIDOL UNIVERSITY

1982

12943

ABSTRACT

The computer software package developed in this thesis collectively named SADPLN, is aimed to determine dose distributions of cobalt-60 teletherapy planning in SAD (fixed source to axis distance) system. The calculation method is performed with the consideration of SSD (source to surface distance) variation during a treatment and the effect of patient contour shape. The performance of the SADPLN is carried out by using an analytic mathematical single field expression. The application for several field arrangements in both fixed and moving field techniques are displayed by pictorial maps and table lists. The discussion of the reliability and validity of the designed program are also presented.