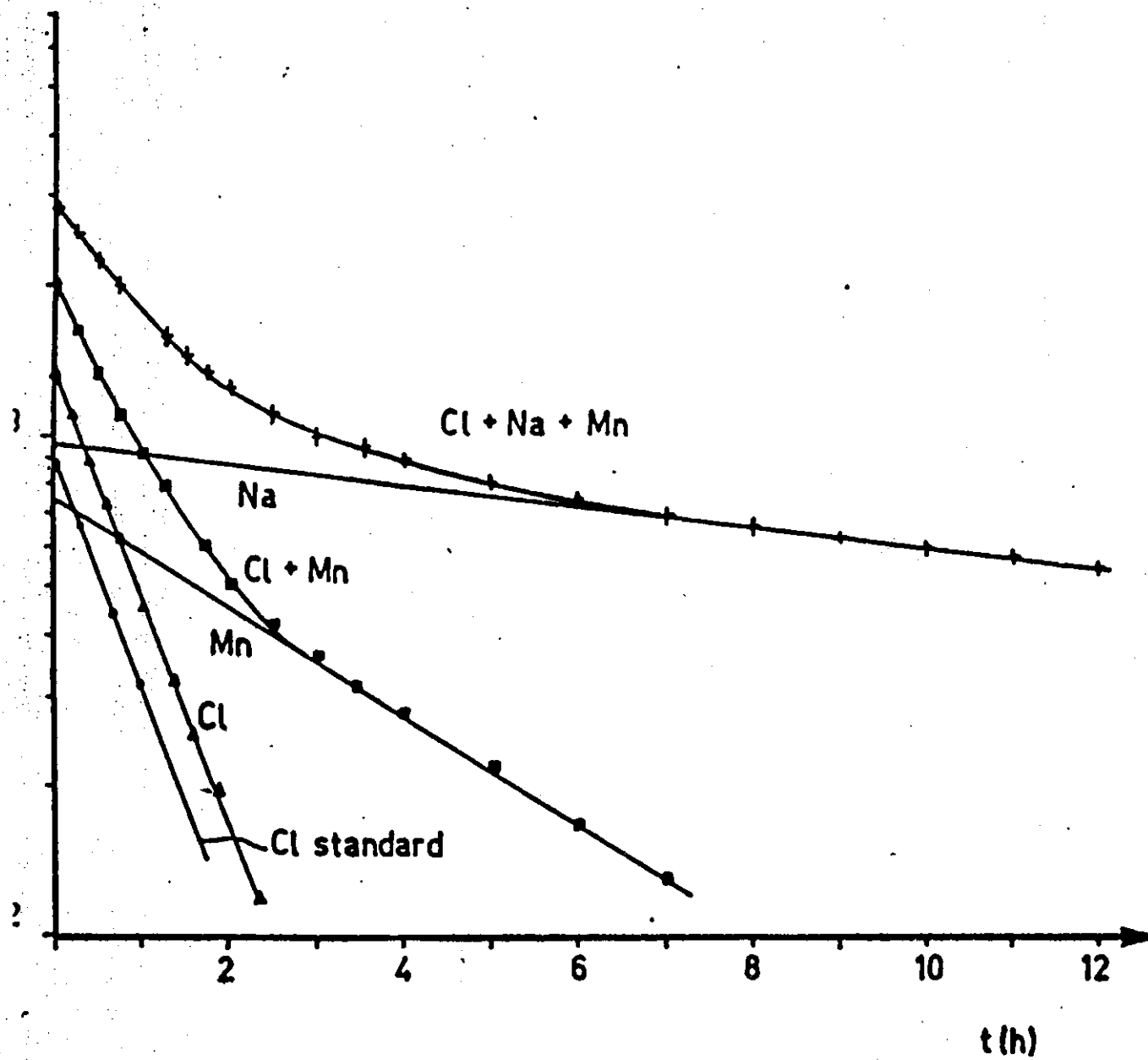


9.1



9.1. Decay curve of chlorine in a terphenyl sample containing Na and Mn.

Activation Analysis: Practices

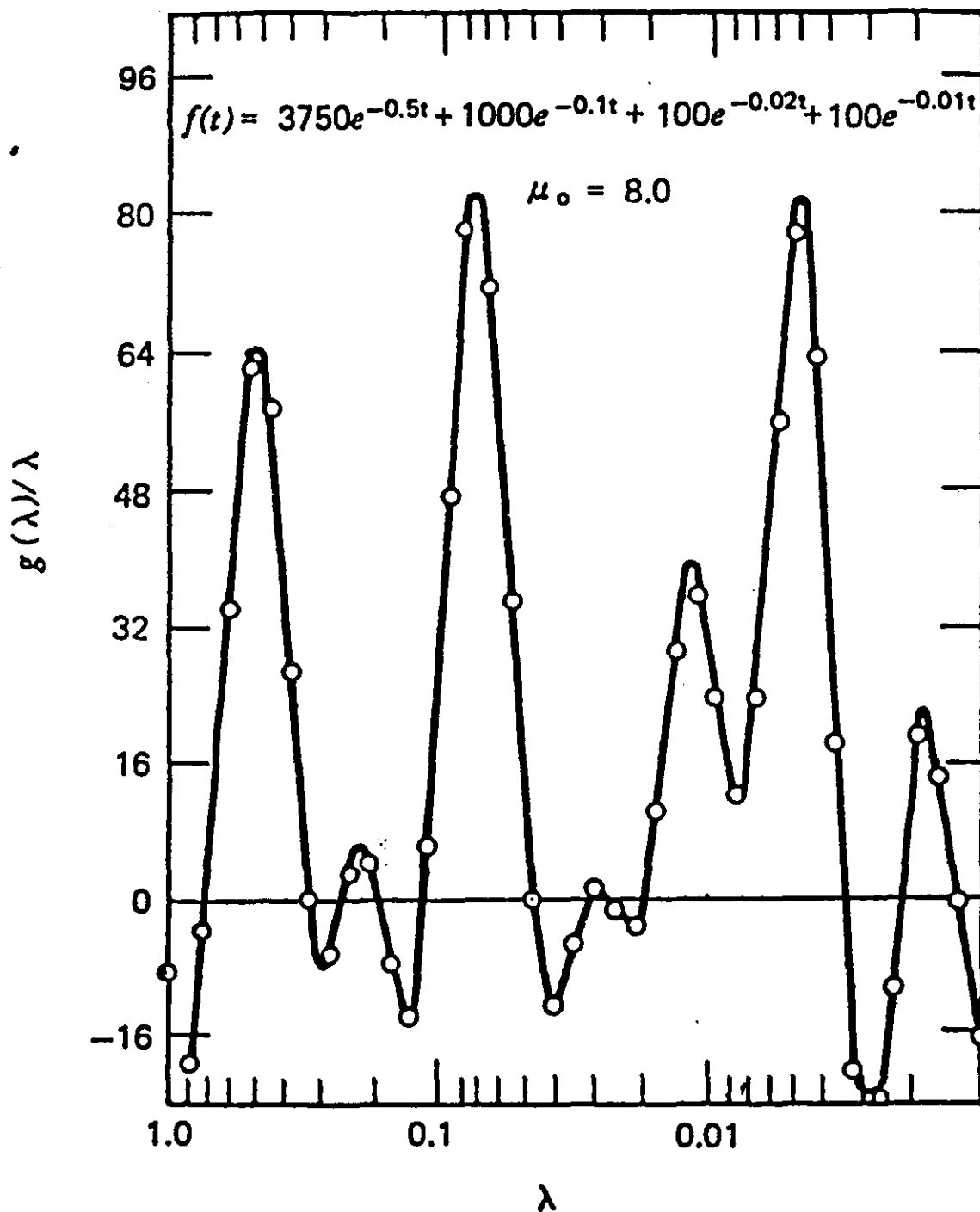


Figure 7.18 Resolution of a four-component decay curve by a Fourier transform analysis method. (From D. G. Gardner and J. C. Gardner, *Analysis of Multi-component Decay Curves by Use of Fourier Transforms*, in *Applications of Computers to Nuclear and Radiochemistry*, NAS-NS 3107, 1963, pp. 33-40.)

9.2a

Activation Analysis: Practices

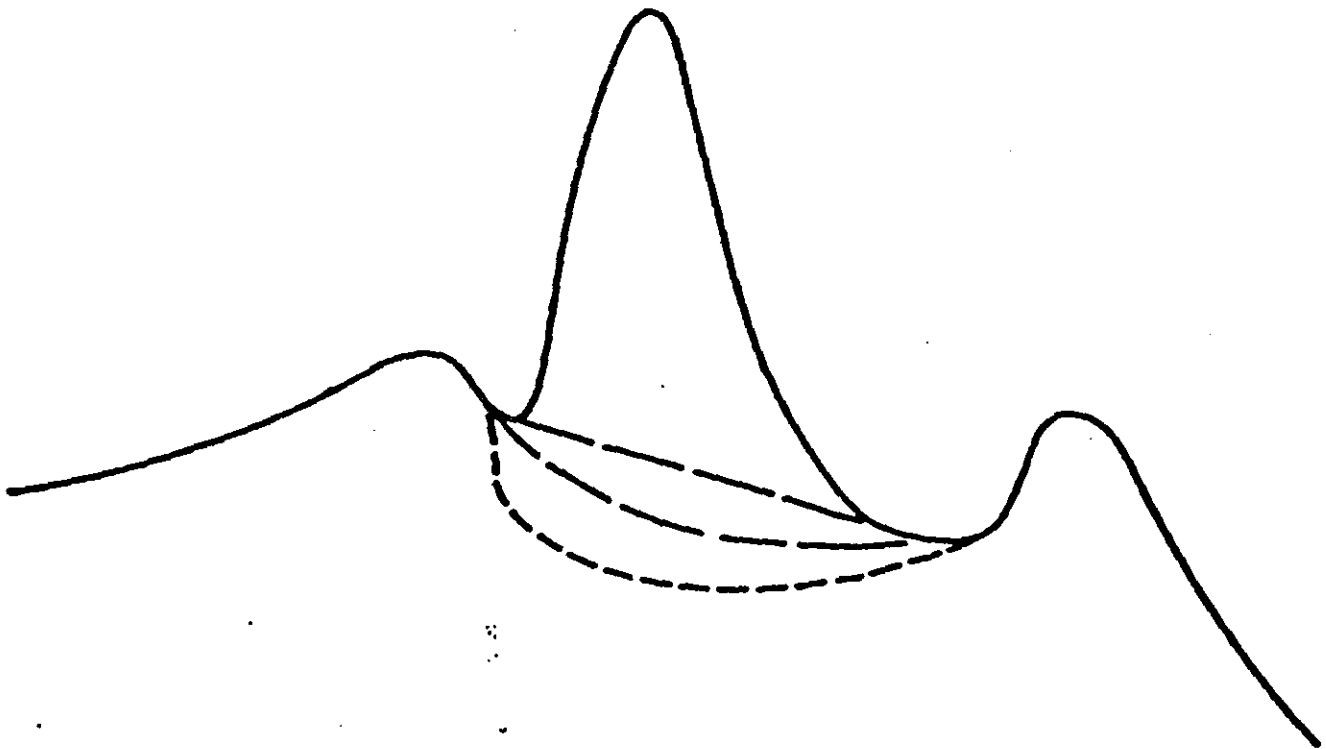


Figure 7.9 Simple subtractions of baseline from a full energy peak in a mixed γ -ray spectrum. Considerable errors may result, especially if the Compton continuum of a higher energy gamma ray represents a significant fraction of the total distribution in the pertinent full-energy channels.

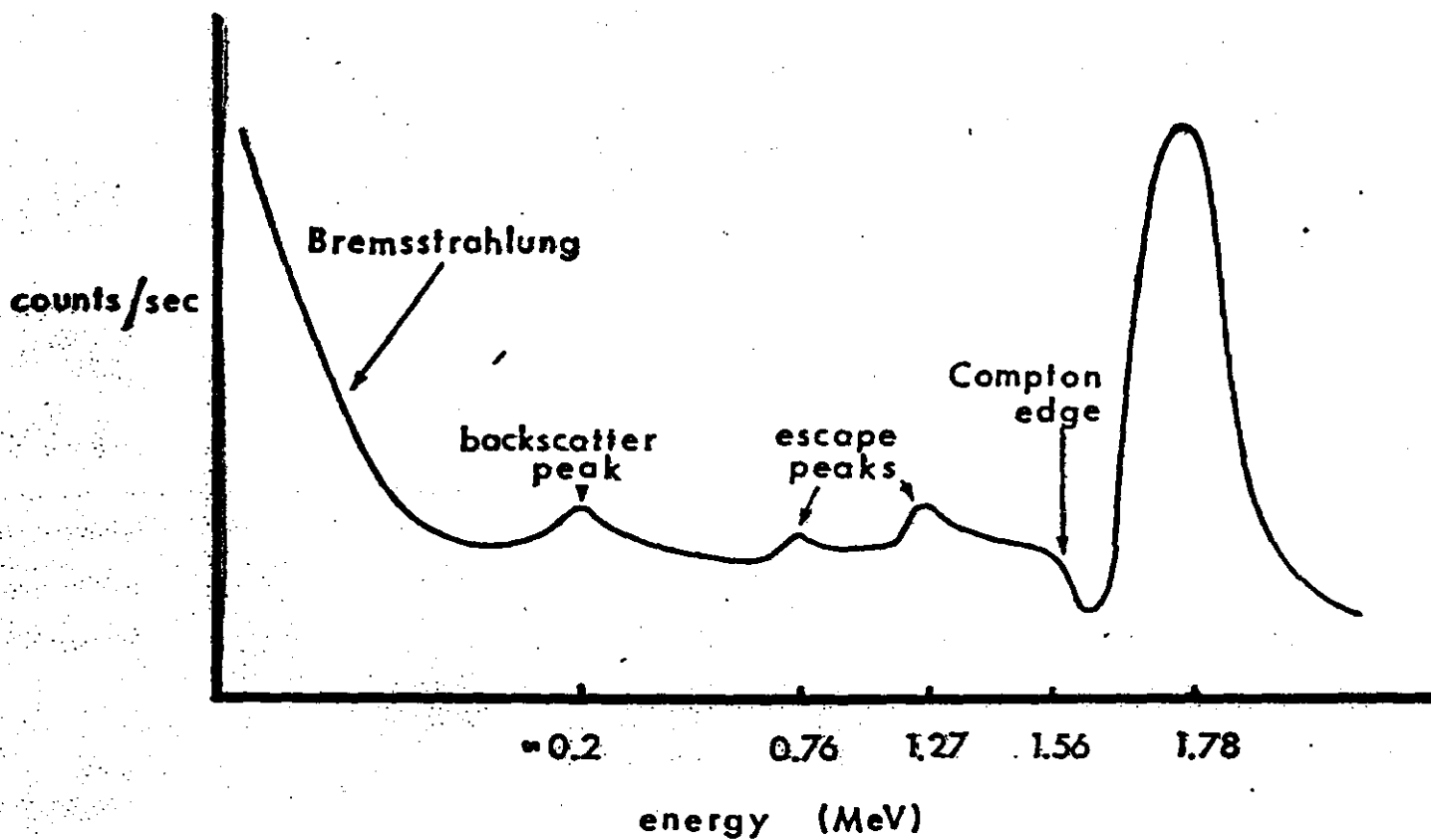


FIG. 7. Typical γ -ray spectrum from ^{28}Al .

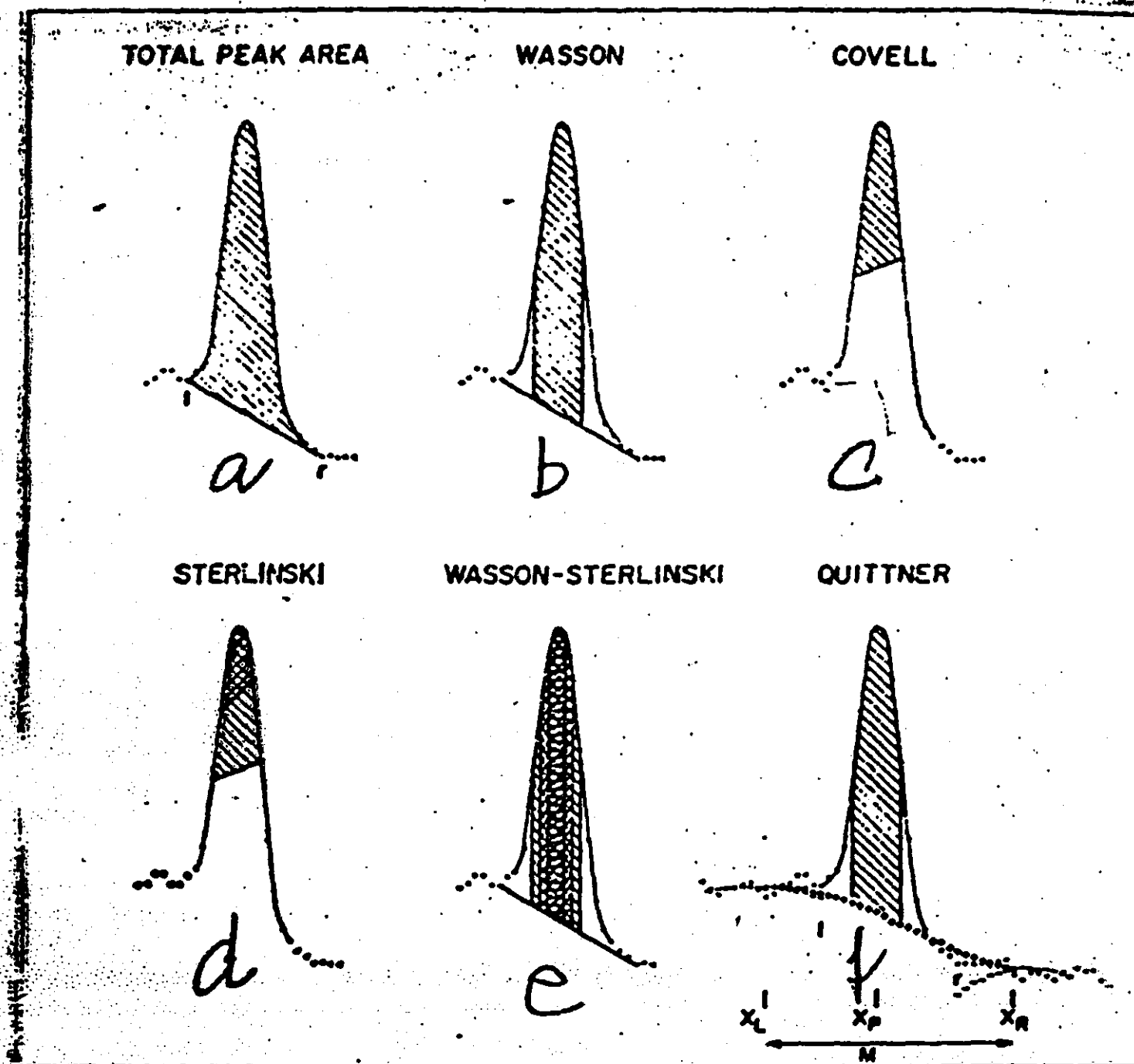
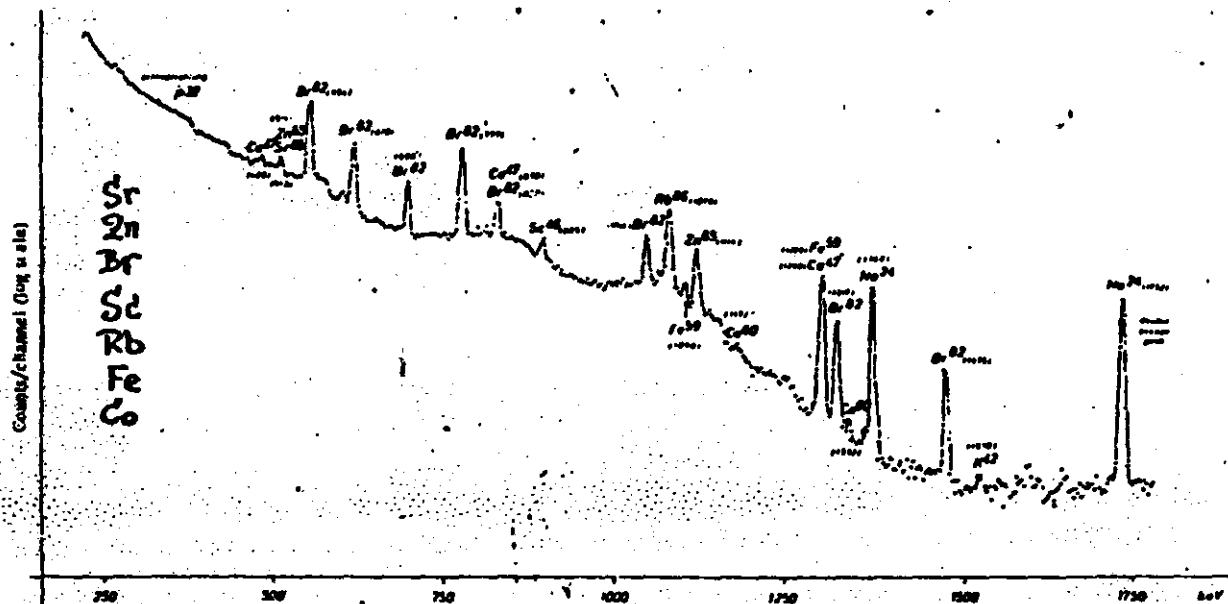
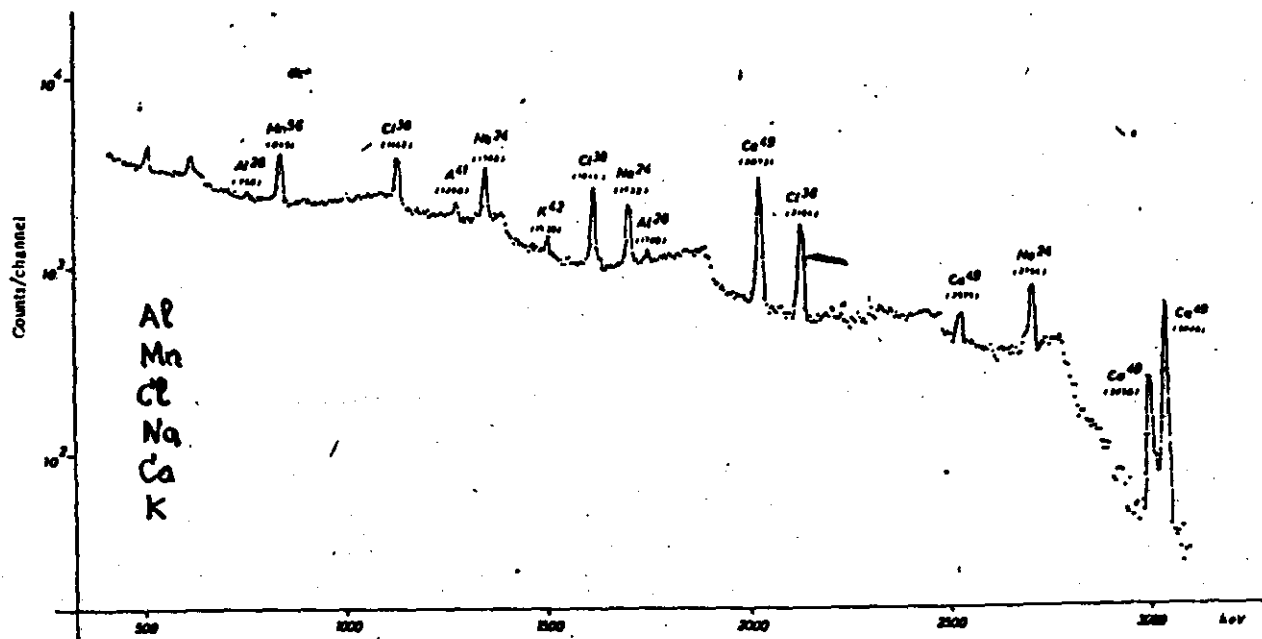


Figure 1. Six of the seven methods of photopeak integration employed in this study



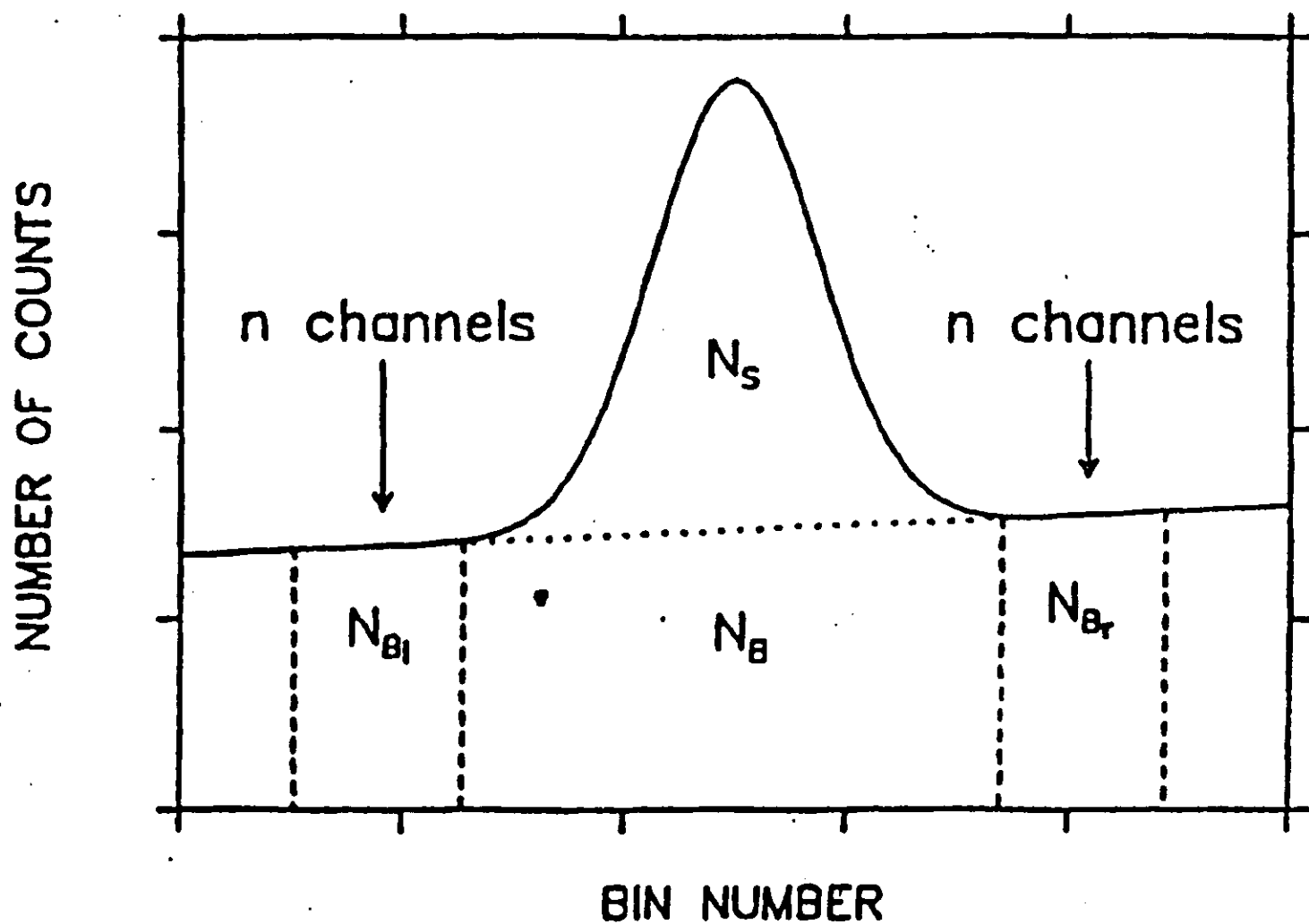


Fig. 1. This figure illustrates the various parameters involved in the determination of the peak area

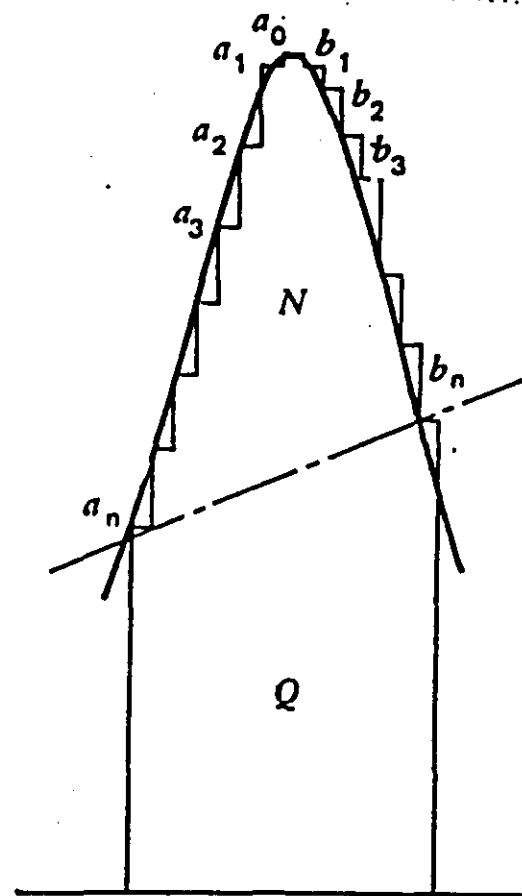
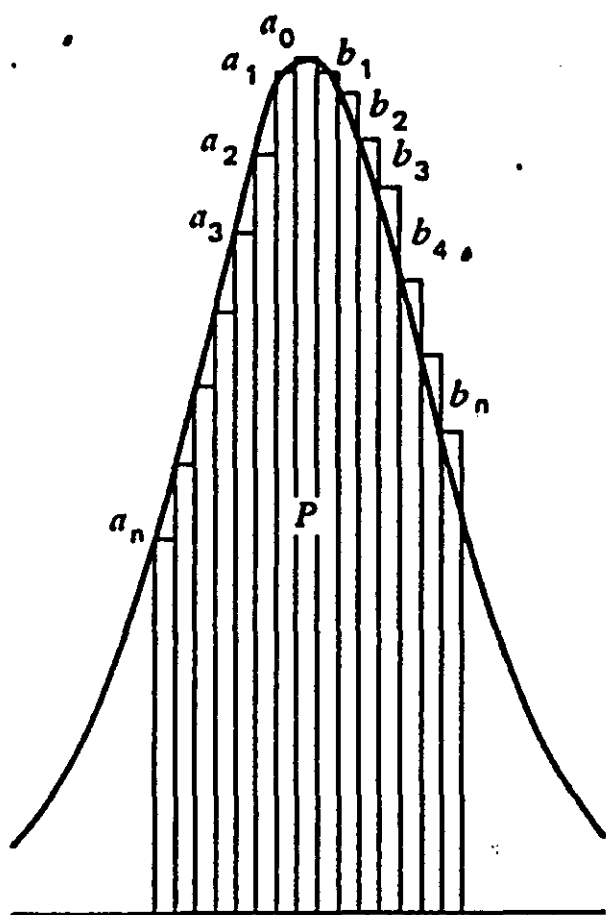
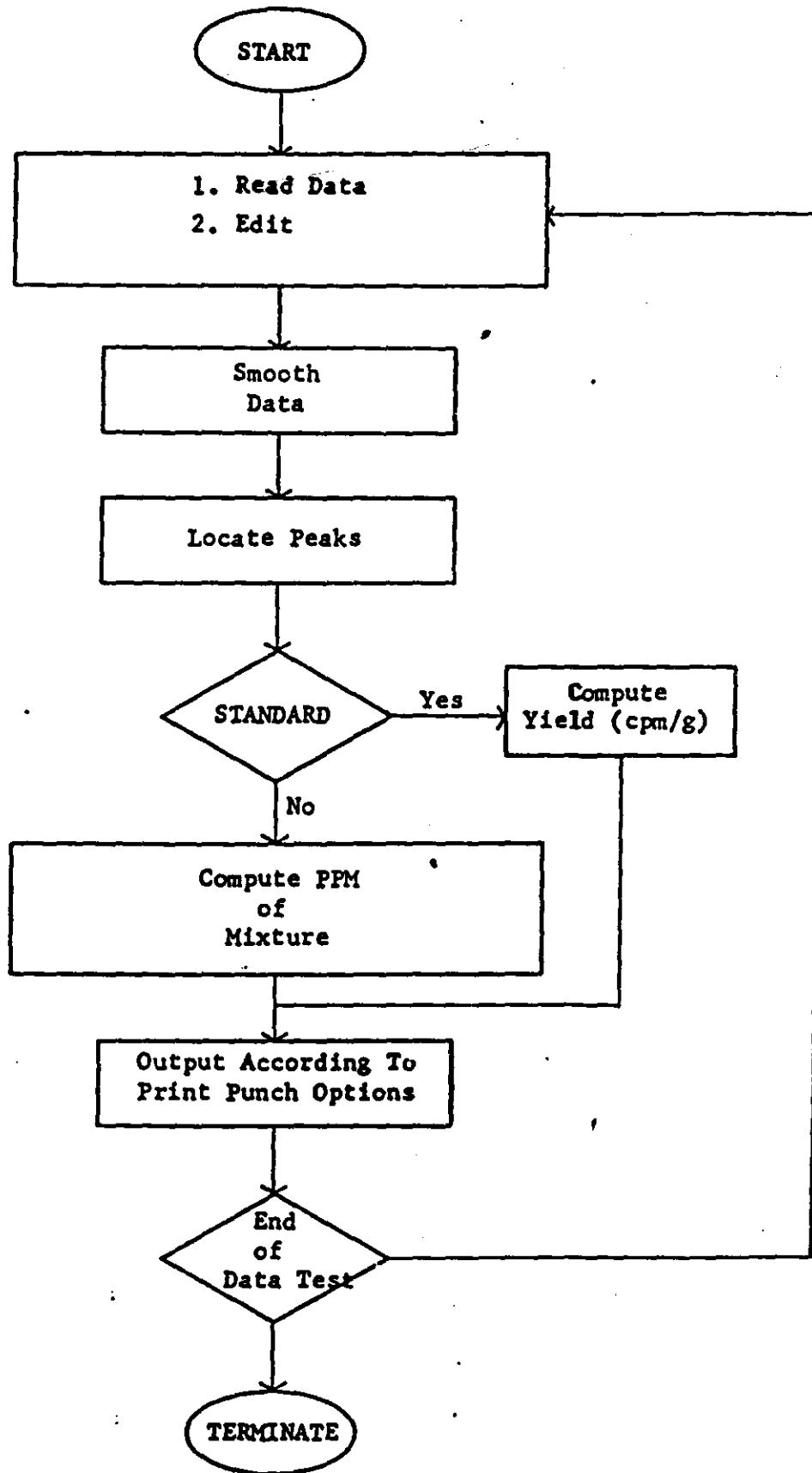


Figure 7.14 Pulse-height analysis data as a histogram in which the area P represents the total counts contained in channels a_n to b_n and the intersect between a and b_n above which the area N bears a constant relationship to the total area contained in the peak and therefore the gamma-ray intensity. [From D. I. Covell, Determination of Gamma-Ray Abundance Directly from the Total Absorption Peak, *Anal. Chem.* 31, 1785, (1959).]



9.3c
Figure 7.21 The general purpose activation analysis computer program, "Hevesy." [From H. P. Yule, "Hevesy," A Computer Program for Analysis of Activation Analysis Gamma-Ray

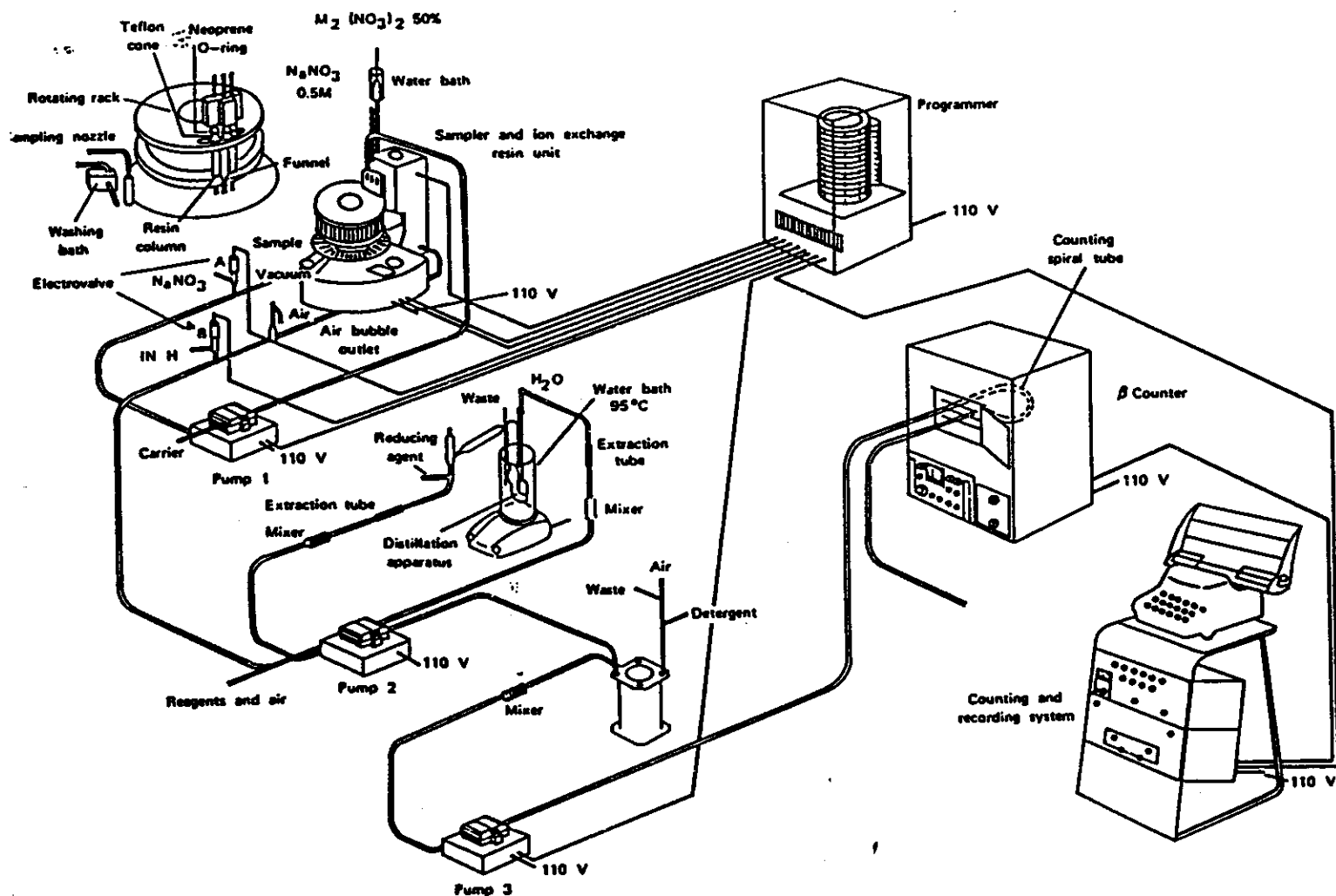


Figure 7.7 Schematic components of an automatic chemical treatment system. [From D. Comar and C. LePoec, on the Use of an Automatic Chemical Treatment System in Activation Analysis of Biological Samples, in *Modern Trends in Activation Analysis* (Texas A&M University, College Station, 1965), pp. 351-356.]