

AS 1502—1976

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**TERMS USED IN
X-RAY SPECTROSCOPY**

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Royal Australian Chemical Institute
SAA Committee on Non-ferrous Analytical Standards
SAA Committee on Sampling and Analysis of Ferrous Metals
State Electricity Commission of Victoria
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This standard, prepared by Committee CH/16, Spectroscopy, was approved on behalf of the Council of the Standards Association of Australia on 14 May 1976, and was published on 1 November 1976.

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**GLOSSARY OF TERMS USED IN
X-RAY SPECTROSCOPY**

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PREFACE

This glossary of terms used in X-ray spectroscopy, and a companion standard for terms used in emission spectroscopy (AS 1503) have been prepared by the Association's Committee on Spectroscopy under the direction of the Chemical Standards Board.

The glossaries have a common section, viz Section 1, Common Spectroscopic Terms. The terms and definitions in this section are of a general nature, applicable to both optical emission and X-ray spectroscopy.

In the preparation of the glossary the publications detailed in the Bibliography were consulted. The assistance received from these is acknowledged, particularly in respect of ASTM E135, Terms and Symbols Relating to Emission Spectroscopy.

There has been considerable development in spectrochemical instruments using energy dispersive systems. For these instruments several definitions require the substitution of energy terms for wavelengths and frequencies.

The committee has used what it regards as being the currently correct terms. Other terms which have similar meanings are listed in the index.

Attention is drawn to the fact that the glossary makes no reference to the Angstrom unit of measurement which however will probably continue to appear in the literature for some time yet.

$$\begin{aligned} 1 \text{ Angstrom unit } (\text{\AA}) &= 10^{-10} \text{ m} \\ &= 10^{-1} \text{ nm (see 1.25, nanometre).} \end{aligned}$$

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