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**EQUIPMENT FOR  
EARTH-FAULT  
PROTECTION,  
MONITORING AND  
CURRENT LIMITATION  
FOR USE IN  
COAL AND SHALE MINES**



**STANDARDS ASSOCIATION OF AUSTRALIA**  
*Incorporated by Royal Charter*

THE FOLLOWING SCIENTIFIC, INDUSTRIAL AND GOVERNMENTAL organizations and departments were officially represented on the committee entrusted with the preparation of this standard:

Associated Chambers of Commerce of Australia  
Associated Chambers of Manufactures of Australia  
Australian Electrical Manufacturers Association  
Association of Mining Electrical and Mechanical Engineers—  
Australia  
Australian Coal Association  
Australian Coal Industry Research Laboratory  
Council of Fire and Accident Underwriters of Australia  
Electricity Supply Authorities  
Joint Coal Board  
N.S.W. States Mines Control Authority  
State Departments of Mines  
Universities

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In order to keep abreast of progress in the industries concerned, publications of the Standards Association of Australia are subject to periodical review. Suggestions for improvements, addressed to the head office of the Association, are welcomed.

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**AUSTRALIAN STANDARD SPECIFICATION**

**EQUIPMENT FOR  
EARTH-FAULT  
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MONITORING AND  
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FOR USE IN  
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**AS 2081-1977**

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## **P R E F A C E**

This standard was prepared by the Association's Committee on Electrical Equipment in Coal Mines, as a revision and metrication of AS C318—1958, which it accordingly supersedes.

It aims to establish the mechanical and electrical characteristics and methods of test of equipment used in coal and shale mines.

The standard requires reference to the following Australian standards:

**AS 1028 Power Reactors and Earthing Transformers**

**AS 1039 Mining-type Flameproof Distribution and Control Boxes for Use on A.C. Systems for 3-phase Voltages up to 1100 V**

**AS 1829 Intrinsically Safe Electrical Apparatus for Explosive Atmospheres**

**AS C61 Power Transformers**

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