

AS 3940—1990

Australian Standard<sup>®</sup>

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**Quality control — Guide to the  
use of control chart methods  
including Cusum techniques**

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This Australian Standard was prepared by Committee QR/4, Statistical Quality Procedures. It was approved on behalf of the Council of Standards Australia on 17 November 1989 and published on 11 June 1990.

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The following interests are represented on Committee QR/4:

Australian Organization for Quality Control  
Bureau of Steel Manufacturers of Australia  
Confederation of Australian Industry  
Department of Defence  
CSIRO, Division of Mathematics and Statistics  
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## PREFACE

This Standard has been prepared by the Standards Australia Committee on Statistical Quality Procedures, at the request of the Quality and Reliability Standards Board.

The need for an Australian Standard to cover process control standards, such as Shewhart control charts and Cusum charts, had been referred to Standards Australia by the Australian Organization for Quality, which was aware that the current Standards used by local industry (i.e., either U.K. or U.S.A. Standards) differed in matters of both definition and emphasis.

This Standard is based on BS 5700, *Guide to process control using quality control chart methods and Cusum techniques*. It provides information to assist the user to clarify the choice between the complementary Standards AS 3941, AS 3942 and AS 3943.

These Standards are 'free standing', in that any one can be implemented without reference to this Standard, or to the other Standards. This Standard gives sufficient information to clarify the choice between those Standards for any particular application. It gives the underlying reasons for the rules used in making this choice and gives some insight into the complicating factors in a particular process which need specific attention.

In order to provide a logical sequence in this Standard, it has been necessary occasionally to duplicate or paraphrase material that is contained within AS 3941, AS 3942 and AS 3943. This is considered preferable to repeated cross-referencing between those Standards and this Standard.

Acknowledgement is made to the British Standards Institution and to the authors of papers in the statistical journals, whose work has been drawn upon.

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