

Guide to the Application of stress analysis to design

Confirmed
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Contents

	Page
Foreword	ii
1 Introduction	1
2 Material properties	1
3 Stress analysis	1
3.1 Elastic analysis	2
3.2 Limit analysis	2
3.3 Shakedown analysis	2
3.4 Elastic-plastic analysis etc.	3
3.5 The role of experimental work	3
4 Application of stress analysis	4
4.1 The component method	4
4.2 The stress category method	4
4.3 BS 1515 and local loading	5
4.4 Summary and comparison of ASME III and BS 1515	5
References	6
Figure 1 — Stable and unstable structures	6
Figure 2 — Comparison between ASME III and BS 1515	7

Foreword

When committee ISO/TC 11, Unification of boiler codes, completed the drafting of the draft ISO Recommendation DR 851, “*Rules for the construction of stationary boilers*”, it was agreed that the committee should extend its scope to include the preparation of a proposal for unfired pressure vessels. The UK member (BSI) decided to continue its active participation in the work of ISO/TC 11.

In order to co-ordinate the work of BSI committees on pressure vessels (boilers, air receivers, unfired pressure vessels etc.) in relation to the preparation and revision of British Standards and also the UK views to be presented to ISO/TC 11, it was decided to constitute a committee E/-/3 Pressure Vessels Standards Committee. This committee was charged with the task of reviewing the rules given in British Standards for the design, manufacture, inspection and testing of pressure vessels with the aim of co-ordinating them and pointing out where these would require supplementing, and of steering the international work.

A sub-committee of E/-/3 under the chairmanship of Mr M.J. Kemper, M.B.E. was set up to review the rules in British Standards. In order to press forward with the work expeditiously, the sub-committee set up small panels of experts to prepare memoranda.

A number of memoranda have now been prepared and are being scrutinized by the various BSI committees responsible for particular British Standards. These memoranda review the rules, make comments on their limits of application, and point to areas where further research will be required. It is intended to publish extracts from these for general information and guidance to designers.

This first memorandum to be approved is one prepared by Professor S.S. Gill, and is in the form of a guide to the application of stress analysis to the design of pressure vessels.

Summary of pages

This document comprises a front cover, an inside front cover, pages i and ii, pages 1 to 7 and a back cover.

This standard has been updated (see copyright date) and may have had amendments incorporated. This will be indicated in the amendment table on the inside front cover.