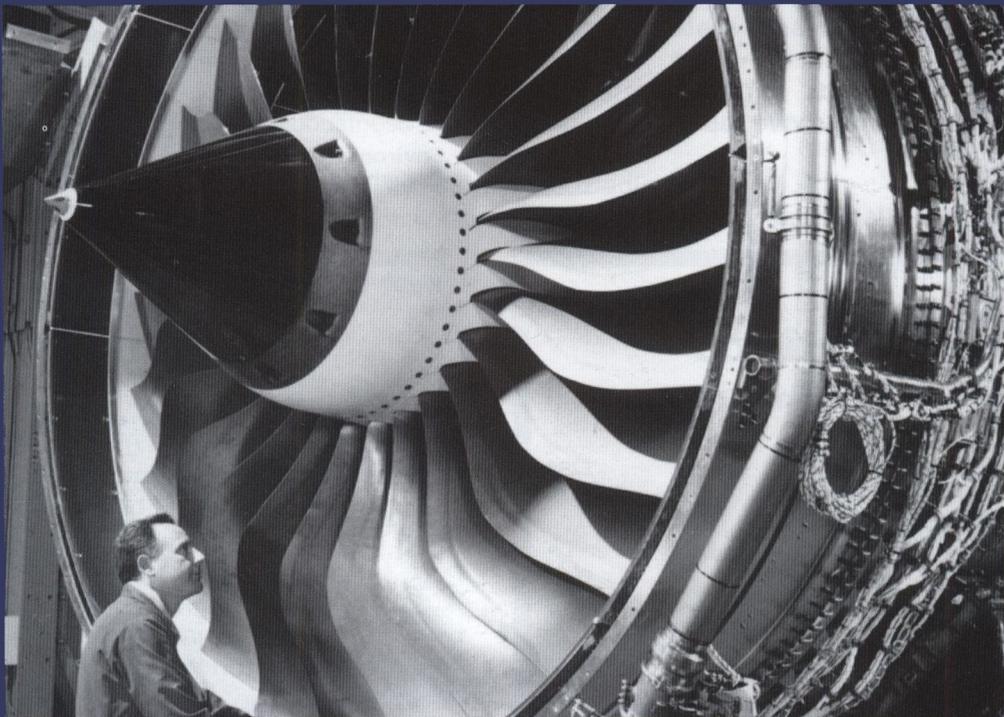




The
**AERONAUTICAL
JOURNAL**



Volume 107, Number 1071

May 2003

Aims and scope

The aims and scope of *The Aeronautical Journal* are intended to reflect the objectives of the Royal Aeronautical Society as expressed in its Charter of Incorporation. Briefly, these are to encourage and foster the advancement of all aspects of aeronautical and space science. Thus the topics of the *Journal* include most of those covered by the various Specialist Groups of the Society, which are: aerodynamics, air law, air transport, airworthiness and maintenance, aviation medicine, avionics and systems, flight operations, flight simulation, guided flight, human factors, human powered flight, light aviation, management studies, propulsion, rotorcraft, space, structures and materials, systems and test procedures.

Papers are therefore solicited on all aspects of research, design and development, construction and operation of aircraft and space vehicles. Papers are also welcomed which review, comprehensively, the results of recent research developments in any of the above topics.

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To submit a paper to *The Aeronautical Journal*, THREE printed manuscripts along with high quality figures (see Guidelines for Authors, p iv) should be sent to the Editor at

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For further advice on submitting papers to *The Aeronautical Journal*, please refer to the Guidance for Authors on page iv. If previously agreed with the editorial staff, it may be possible to supply a paper in a different format.

The Royal Aeronautical Society reserves the right to reject a paper which is not submitted in the required manner.



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Front cover: Rolls-Royce Trent high thrust demonstrator

Guidelines for authors

Papers will be considered for publication in *The Aeronautical Journal* if they meet the terms and conditions below. If these are not met, the Editor reserves the right to withdraw the paper without redress, which may be at any time up to publication.

1.0 PREPARATION OF PAPERS

1.1 General

For a paper to be considered, three clearly typed (double spaced) copies must be sent to the Editor with photocopies of figures (including any photographs) if not included within the printed text. Handwritten manuscripts are not acceptable. The accompanying letter must state that the paper has not been published previously or submitted for publication elsewhere.

The receipt of papers will be acknowledged by return, with a copy of these conditions and a reference number which should be used in all correspondence.

Prior to submission, manuscripts should be read critically by a third party who is familiar with the subject area and has a good grasp of the English language. Authors must also obtain permission where necessary to use any material in a paper which is copyright or the property of any other persons or entity, including their employers. Any fees incurred are the sole responsibility of the authors.

1.2 Figures

All figures must be provided by the authors. Illustrations should be kept to a minimum and should, where appropriate, be produced to the same scale. A list of figures helps in the production of the paper.

1.3 Full paper format

Formal papers should comply with the structural guidelines below and should preferably not exceed 10,000 words. The following is the recommended generic format:

Title: The title should be kept short and concise.

Abstract: A single paragraph abstract of around 150 words which summarises the paper and contains no references.

Nomenclature: A list of all symbols used in the text and figures, whether familiar or not, should be given in alphabetical order, with, for example, c before C and all English letters listed before Greek symbols. Subscripts and superscripts should be listed separately where possible. SI units should be used throughout and are thus not required to be shown here.

MAIN TEXT

- 1. Introduction:** Discuss the *raison d'être* of the work, including previous work by others and how the work being presented aims to advance or complement this.
- 2. Descriptive section:** This could be either description of apparatus if an experimental paper, or a discussion of the practical applications if a more theoretical paper.
- 3. Theoretical section:** Equations should be numbered in the order given and referred to in the text by number as, for example, Equation (19). Complex groupings should not be included in text, but should be numbered as equations.
- 4. Procedural section:** Describe the procedure which utilises that described in (2) above.
- 5. Presentation and discussion of results:** Tables of results, numbered in order, should be referred to here and should include only the main results. Errors should be considered an important part of any analysis.
- 6. Conclusions:** This section should be very concise and bullet points are recommended for clarity. The degree to which the aims have been achieved should be portrayed clearly to the reader. Suggestions for future work or work in progress are encouraged.

References: References should be numbered sequentially in the text as they occur. For example, most commonly for papers⁽¹⁾ and reports⁽²⁾

1. Miller, P and Wilson, M. Wall jets created by single and twin high pressure jet impingement, *Aeronaut J*, March 1993, 97, (963), pp 87-100.
 2. Green, J.E., Weeks, D.J. and Brooman, J.W.F. Prediction of turbulent boundary layers and wakes in compressible flow, *ARC R&M No 3791*, 1979.
- and for books⁽³⁾
3. King-Hele, D. *Satellite Orbits in an Atmosphere*, Blackie, Glasgow, 1987.

Appendices: If no suitable reference is available appendices may be used to clarify certain points, such as a step in the theoretical analysis.

1.4 Technical Notes

These can be up to 2,000 words in length and have no set form. They can be abstracts, comments upon unpublished papers, notes on interim results or a call for further research. They do not have to contain figures or nomenclature and may be in the form of a letter.

1.5 Engineering Notes

These are a maximum of one page and may be used to communicate practical solutions to problems encountered on the shop floor or in the laboratory.

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