

## INSTRUCTION TO CONTRIBUTORS

(Indian Journal of Radio & Space Physics)

**Submission of manuscript:** Manuscripts for consideration for publication in *Indian Journal of Radio & Space Physics* should be submitted online from our online publishing system (<http://op.niscair.res.in/index.php/IJRSP>) or as an e-mail attachment. They should neither have been already published nor be under consideration elsewhere.

Manuscripts should be in English and typed in double space, with adequate margin on all four sides. The line number may be added for ease of reviewing. The manuscripts should be complete in all respects including abstract, illustrations, appendices, etc.

**Preparation of manuscript:** Authors may consult recent issues of the Journal to familiarize themselves with the general style and practices adopted in regard to the various elements of a paper.

**General:** Manuscript should be presented in as concise a form as possible. Good attention should be given to spelling and grammar. In giving names of chemical compounds and structures, abbreviations of units of measurements, symbols and notations, the style and practices recommended by the IUPAP and IUPAC, should be followed.

Frequently repeating combinations of words, e.g. sudden atmospheric disturbance (SID), point discharge current (PDC), electric field gradient (EFG), junction field effect transistor (JFET), stimulated Raman emission (SRE), should be abbreviated, indicating the abbreviated form in parenthesis, as shown, at the place of their first occurrence. Subsequently, the abbreviated form can be used.

Pages should be numbered consecutively and arranged in the following order. Title, authors' names with their institutional affiliations and abstract, along with relevant footnotes whenever necessary (on a separate sheet); introduction; experimental details/theory/method/analysis; results; discussion; conclusion(s); acknowledgement(s); references and appendices. Tables, captions for figures (with legends) and appendices should be typed on separate sheets and attached at the end of the manuscript.

**Title:** The title should be neither too brief/general nor unnecessarily long. It should reflect the content of the paper so as to derive the maximum advantage in

indexing. If a paper forms part of a general series, a specific subtitle, indicating the particular aspect of the work covered in the paper, should be provided.

A short running title for the paper, the broad PACS subject heading under which it should be classified in the contents page, and the author's name and address for correspondence including E-mail address, should also be provided on the title page.

**Abstract:** The abstract, usually not exceeding 200 words, should indicate the scope and significant content of the paper, highlighting the principal findings and conclusions. It should be in such a form that abstracting periodicals can use it without modification. The important keywords should be given below the abstract.

**Introduction:** Long and elaborate introduction should be avoided. It should be brief and state the exact scope of the study in relation to the present status of knowledge in the field. Literature review should be limited strictly to what is necessary to indicate the essential background and the justification for undertaking the study.

**Materials, methods, apparatus, etc.:** The sources of materials and their purity, methods of preparation, procedure for measurements and their accuracies, etc. should be clearly stated to enable any other worker to repeat the work if necessary. New methods, techniques, theories, etc. should be described in adequate detail; but if they are well known, a mere literature reference to them will do; differences from standard ones, improvements or innovations should, however, be clearly mentioned.

**Results:** Only such primary data as are essential for understanding the discussion and main conclusions emerging from the study should be included. All secondary data as are of interest to a specific category of readership should not be included in the paper. Such data should be retained by the authors for supply, on request, to any interested research worker. A footnote to this effect may be inserted at the relevant place in the paper.

The results must be presented in a coherent sequence in a unified logical structure, avoiding repetition or confusion. Limitations of the results should be clearly stated. **The same data should not be presented in both tabular and graphic forms.**

Only such tables and figures as are essential should be included. Simple linear plots that can easily be discussed in the text, should not be included. Infrared, ultraviolet, NMR and other spectra, DTA curves, etc. should be included only if they pertain to new compounds and/or are essential to the discussion; otherwise only significant numerical data should be given in the text or in a table.

**Discussion:** Long rambling discussion should be avoided. The discussion should deal with the interpretation of results without repeating information already presented under results. It should relate new findings to the known and include logical deductions. A separate section on 'conclusions' can be given only when they are well established and of outstanding significance. Mere observation of qualitative trends of results should be distinguished from firm conclusions. Also, limitations, if any, to the conclusions should be clearly pointed out.

**Mathematical portions:** Special attention should be given to the mathematical portions of the paper. Equations must be well separated from the text and written clearly with good separation between the successive lines. The usual norms of breaking long mathematical expressions should be adhered to. Equations should be numbered consecutively in Arabic numerals with the number in parenthesis near the right hand margin. Use microsoft equations to compose mathematics. **Capital and small letters, particularly of the same letter when both occur, as well as letters or symbols likely to be confused one for the other, should be clearly distinguished.** Special characters (e.g. Greek, script, vector, tensor, etc.) required must be indicated by marginal notes. Letters and symbols, which should appear in bold face, must be clearly indicated.

**Tables:** Tables should be numbered consecutively in Arabic numerals and bear brief titles. Column headings should be brief. Units of measurement should be abbreviated and placed below the headings. Nil results should be indicated and distinguished clearly from absence of data. Inclusion of structural formulae inside the tables should be avoided as far as possible. Tables should be referred to in the text by numbers and not by terms like 'above', 'below', 'proceeding' or 'following'. Results should not be presented to a greater accuracy than that of the method employed.

**Illustrations:** The number of illustrations should be kept to the minimum. Wherever possible, e.g. a number of individual analogous figures referring to

different variables, substances, molecules, etc. may be combined into one composite figure. All illustrations should be numbered consecutively in Arabic numerals. Captions and legends to the figures should be self-explanatory.

Letterings on the illustrations should be uniformly in Arial font. The legends on the axis of linear curves/plots should be in all-capitals. Size of letterings in the illustrations should be such that after reduction to 85 mm width (column) or 165 mm (double column) the size remains around 10/12 point size, i.e. matching with the main text of the paper in the journal. The size of geometrical shapes (used to distinguish different graphs), dots, lines, etc. should be sufficiently large to permit the necessary reduction without loss of detail. If an illustration is taken from another publication, reference to the source should be given and prior permission secured. Illustrations should be referred to in the text by numbers and not by terms like 'above', 'following' etc.

**Acknowledgements:** Acknowledgements should not be exuberant and must be made only to real assistance rendered in connection with the work reported in the paper. The authors also must acknowledge facilities/instruments used in the conduct of research provided by an institution different from his own.

**References:** References cited should be limited to the absolute minimum (particularly in the case of short notes) based on their essential relevance. In the text, references to literature should be numbered consecutively, in the order of their first occurrence, and should be indicated by superscript. Arabic numbers at the relevant places; as far as possible the placement of references on numerals or other symbols should be avoided; in such cases the reference may be given in parenthesis in running text, e.g. "this yielded for  $n$  a value of 2.3 (Ref.5)". Full bibliographic details for all the references mentioned in the text should be listed in serial order at the end of the paper.

In citing references to research papers, names and initials of authors should be followed, in order, by the full title of the article, the title of the periodical in the abbreviated form with country name (in italics), the volume number the year within circular brackets and the page number [e.g. Lesmes D P & Morgan F D, Dielectric spectroscopy of sedimentary rocks, *J Geophys Res (USA)*, 106 (2001) 13329.]. For names of periodicals, the abbreviations followed by the Physics Abstracts should be used. For periodicals not covered by Physics Abstracts, the title abbreviations

should be according to the Bibliographic Guide for Editors and Authors, 1974, published by the American Chemical Society, Washington DC, USA, or INSPEC List of Journals and other serial sources, published by Institution of Electrical Engineers, UK. If a paper has been accepted for publication, the names of the authors and the journal (with volume number and year, if known) should be given followed by the words "in press" [e.g. Wahi P K & Patel N D, Characteristics of VHF radiowave scintillations over a solar cycle (1983-1993) at a low latitude station: Waltair (17.7°N, 83.3°E), *Can J Spectrosc (Canada)*, in press]. In references, the names of all the authors with their respective initials should be given. The abbreviations *et al.*, *idem* and *ibid* should be avoided.

Reference to a book should include details in the following order: name and initials of authors, the title of the book (in italics), name of publisher and place of publication within circular brackets and year and page (s) [e.g. Smylie D E, Clarke G K C & Ulrych J J, *Methods in Computational Physics* (Academic Press, New York), 1973, 391.]. If the reference is to the work of an author published in a book by a different person, the fact that it is cited from the source book should be clearly indicated [e.g. Culhane J L, cited in *Supernovae*, edited by D N Schramm (D Reidal), 1977, 130].

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the paper (italics), name of the conference, and where and when it was held (e.g. Sen A K & Trehan S K, *Field changes of the sky wave component due to a local broadcast signal during different geophysical phenomena*, paper presented to the Symposium on Earth's Near Space Environment, National Physical Laboratory, New Delhi, India, 18-21 Feb. 1989). Reference to a thesis should include the name of the author, title of the thesis in italics, university or institution to which it was submitted and year of submission (e.g. Mehrotra S N, *Many-body techniques and their applications to interacting bosons*, Ph D Thesis, Calcutta University, Calcutta, WB, India, 1976).

Reference to a patent should include names of patentees, country of origin (italics) and patent number, the organization to which the patent has been assigned (within circular brackets), date of acceptance of the patent and reference to an abstracting periodical where available [e.g. Labes M M, US Pat. 4,066,567 (Temple University), 3 January 1978; Chem Abstr., 88 (No. 20) (1978), 138350n].

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