

The Reviewer is invited to provide author(s) with comments directed to improving the paper. It is a rare paper that cannot benefit from the perspective of a knowledgeable reviewer viewing its contents for the first time. Comments may be recorded directly on the manuscript or on a separate sheet of paper.

The contribution of comments is optional for papers awarded Total Point scores of seven or more. If the Total Point score is less than seven, then the reasons for the poor scoring should be provided for transmittal to the author(s); anonymously, of course. Adverse comments should be constructive and presented in a professional manner.

This review form was developed for presenting the virtues of a paper in ways that reflect its value. No one scale of values will suit all papers; therefore, there are five emphases from which one may be chosen.

PAPER TYPE: (reviewer should select on type)

- Tutorial: Review of concepts for new entrants or inexperienced workers in a field.
- Design: Report an advance in a concept, hardware, or system.
- Equipment: Description of hardware with particular virtues.
- Application: Interpretation of industrial trends, moot situation, resolution of confusion, or background of a present situation.
- Theory: Discussion of physical phenomena involving instrumentation and systems concepts.

RATING SYSTEM: Of the attributes a paper may possess, the following five characteristics have been selected as positive (desirable) qualities.

- Originality: Should add to presently available literature.
- Clarity: Readily understandable, free from jargon.
- Completeness: Thoroughness of treatment, adequately referenced.
- Accuracy: Conformity to truth in presentation, instruction, and conclusions.
- Usefulness: Applicability to the Society and scientific community.

The table below shows weights assigned the several attributes for each of the recognized paper types. ENTRIES INDICATE THE MAXIMUM NUMBER OF POINTS A PAPER CAN SCORE. It is possible for an acceptable paper to score low in an attribute relatively unimportant for its type, but a paper deficient in an important aspect cannot recover by excellence in some area of secondary importance.

As opinions of a paper vary, so will the scores, but it is expected that this method will result in all reviewers with the same opinion of a paper assigning about the same Point Total.

Paper Types (choose one)	Originality	Clarity	Completeness	Accuracy	Usefulness	Maximum Possible
Tutorial	1	4	2	4	2	13
Design	2	3	2	4	2	13
Equipment	3	3	2	3	2	13
Application	1	4	3	3	2	13
Theory	1	3	2	4	3	13

Key to Point Total: 12-13 — Excellent 10-11 — Good 7-9 — Acceptable <7 — Not acceptable