Discussion

A. H. Church. This paper performs a very useful purpose by assembling widely scattered information on an important subject. The authors are to be congratulated on an excellent presentation.

While an extensive bibliography is given at the close of the paper, it would be desirable to have specific references for each table. This would permit the user to review the derivation of the frequency constants, all of the assumptions used in the derivation, and to note if there is any experimental verification as to their validity.

W. B. Diboll, Jr. For anyone who has spent many hours searching for beam and plate vibration information, this paper will be well accepted. The collection of information is excellent, and the bibliography is extremely welcome.

Some analytical work in the field of vibration of plates has recently been published, which the writer would like to offer as an addition to the bibliography.

K. Kloster. The authors have set out to perform a very useful service to designers; namely, to provide them with ready-made charts and tables giving the natural frequencies of the elastic vibrations for construction members. Because it may be expected that these charts and tables will find their way into more permanent records (as “Design Data” or the like) the writer would like to offer some suggestions aimed at improving the usefulness of the compilation. The first two of these suggestions are minor ones; the third, however, if followed, would, in the writer’s opinion, enhance considerably the usefulness of the work performed.

The primary purpose of this paper is to provide the designer with useful information. We wish to express our appreciation to the authors of the discussions for their constructive comments which will make the paper more nearly meet this objective.

As Professor Church and Professor Kloster point out, the specific reference for each table should be given. This addition has been made since the preprints. Also Professor Kloster’s suggestion that the values of the density and Young’s modulus for steel be given early in the paper has been followed.