

MASSACHUSETTS INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF MECHANICAL ENGINEERING  
CAMBRIDGE 39, MASSACHUSETTS

WARREN M. ROHSENOW  
PROFESSOR IN CHARGE  
HEAT TRANSFER LABORATORY

April 27, 1964

Mr. Eugene F. Adiutori  
Stability Consultants  
P. O. Box 18062  
Cincinnati, Ohio

Dear Mr. Adiutori:

I am writing in reply to your letter of March 13th and also to that of March 1st, which was forwarded to me by Dr. Bliss.

It was good of you to provide a plot of the points from Dr. Berenson's thesis as I suggested, for now I understand how you were led into error on this question of linearity. It is true, as you say, that the points which you have chosen, although hardly a complete selection of those available to you, do appear to be linear. However, a little thought on the matter discloses the following points. A cubic or even a quadratic equation will appear linear over a short interval, particularly as one gets far from the origin. It is precisely for this reason that log-log paper is employed, i.e., to point out the non-linear relationship even in ranges where it might escape notice on linear paper. Furthermore, if you had included all of the points from the graph on page 119 of Modern Developments in Heat Transfer, instead of only those lying in a narrow range, the non-linear character of these points might have been apparent even on linear paper. I do not feel that I can comment on your "more powerful method" of proving this linearity for I am somewhat vague on just what you mean by an "orthogonal" experiment.

In recommending that your earlier paper not be published by AIChE, I was not objecting to your suggestion that the data be plotted on linear scale, because you are entitled to this opinion and to make this suggestion. Rather, I objected to the form in which you wrote the paper. Your papers tend to be written in a cavalier editorial style. I suggest you shorten your rather lengthy descriptions and use graphs to illustrate your points. Further, you refer to your as yet unpublished works to attempt to convince the reader of certain points.

It is quite likely that many of your observations are worthwhile. I suggest you improve your method of presentation so that your readers can be properly convinced; state your proposition and prove it in a succinct manner without excess verbiage and do avoid gratis comments such as: "Is the boy whistling because he is afraid or ---". These do not add to your logic in any way.

Sincerely,

*Warren M. Rohsenow*

Warren M. Rohsenow  
Professor of  
Mechanical Engineering

WMR:hms

P.S. I have enclosed a complete plot of Berenson's data on linear paper and samples of power law curves which are appropriate to the data.

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FA

Revised from Rohsenow -  
to letter dated 4/27 - unretouched  
40 MASS. AVE., CAMBRIDGE, MASS.

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