

ERRATUM

THE INFLUENCE OF ELECTRIC FIELDS ON THE  
CONVECTIVE HEAT TRANSFER IN LIQUIDS

by G. AHSMANN and R. KRONIG \*)

Laboratorium voor Technische Physica der Technische Hogeschool, Delft

Due to the use of a wrong value of the temperature coefficient of the wire employed the temperature difference  $\theta_s$  between the wire

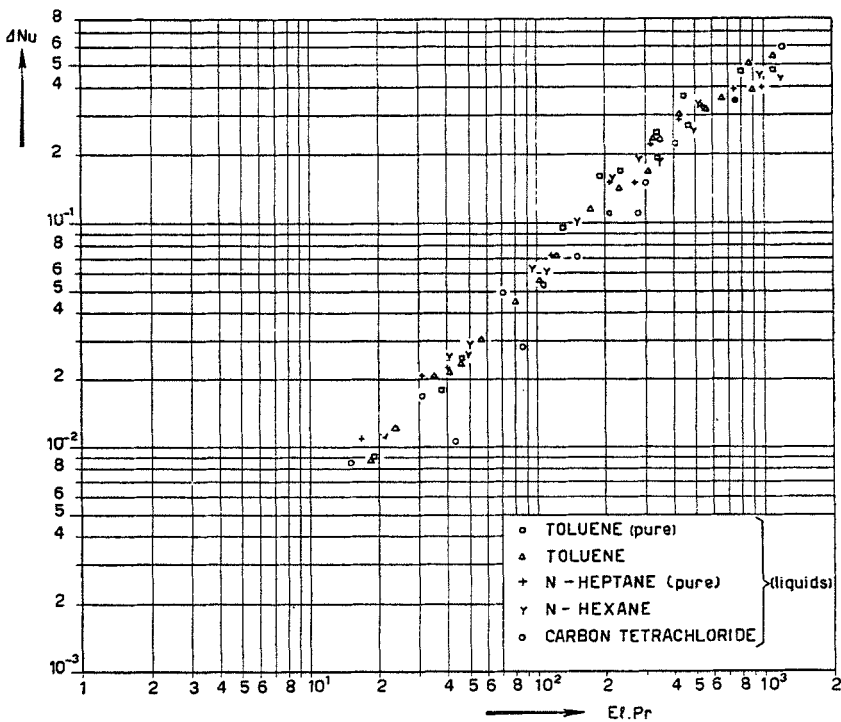


Fig. 3. The change  $\Delta Nu$  in Nusselt's number for a horizontal wire, due to the application of an electric field, as function of the product  $El \cdot Pr$  of the electrical characteristic number and Prandtl's number.

\*) G. Ahsmann and R. Kronig, Appl. sci. Res. A2 (1950) 235.

and its cold surroundings had to be recomputed. The old  $\theta_s$  must be multiplied by a factor 5.1 so that the  $\theta_s$  now become in the successive columns of table I: 36°, 55°, 65°; table II: 37°, 55°, 66°; table III 37°, 55°, 66°; table IV: 38°, 60°, 69°; table V: 44°, 65°, 78°; table VII: 245°; the remaining data being unchanged.

In consequence fig. 3 had to be altered as shown. The two points for ammonia have now been omitted, the new temperature difference  $\theta_s$  being here so large that the assumptions of the theory no longer are fulfilled. A comparison with fig. 1 in the following article by De H a n shows a proper agreement between the two series of measurements.

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