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U. S. BUREAU OF MINES
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Aromatics - Naphthene Equilibrium

By Dr. Peters, Ludwigshafen, 22 May 1943

Some years ago Dr. V. Miffling calculated the equilibrium for benzol-cyclo-hexane and toluol-methylcyclohexane, shown in Fig. 1.

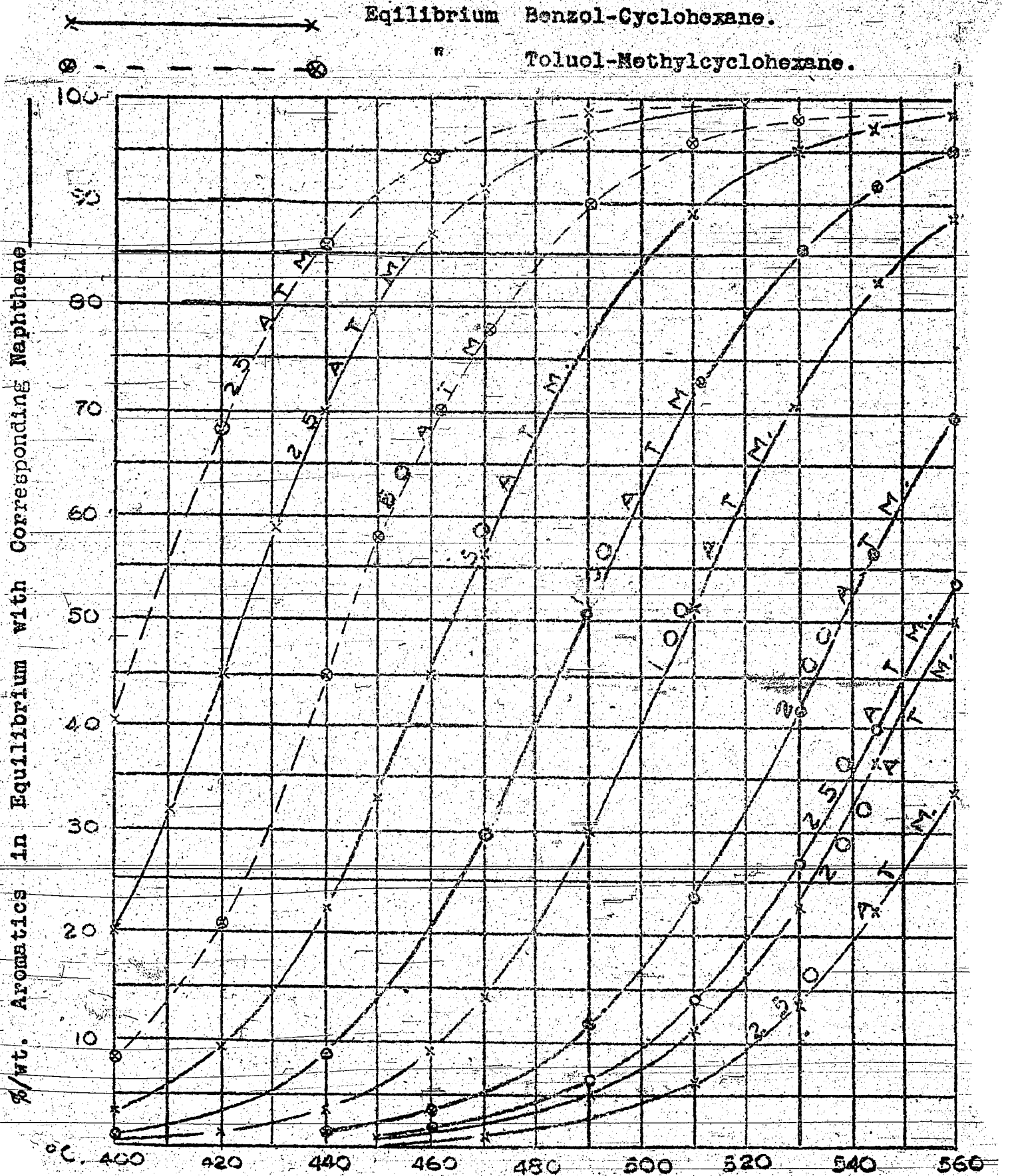
These data are graphically represented in Fig. 2 and Fig. 3 in another form.

- a) Fig. 2 shows the dependence of the aromatics concentration on H_2 partial pressure in different temperature ranges.
- b) Fig. 3 shows the pressures and temperatures required in order to obtain the thermo-dynamic equilibrium of certain aromatic concentrations.

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Fig. 1

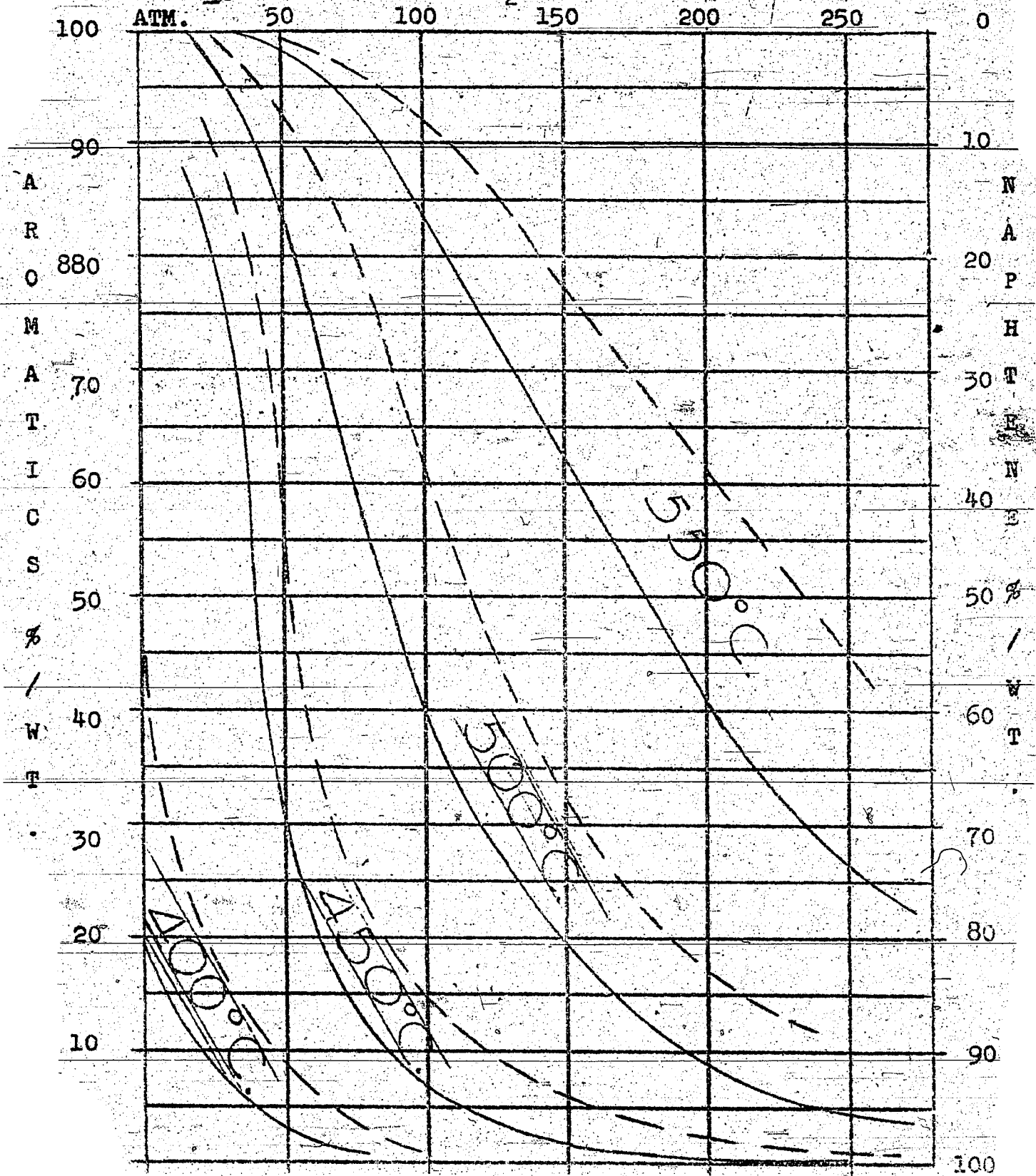
Aromatics-Naphthene Equilibrium For Different H₂ Partial Pressures



AROMATIC-NAPHTENE-EQUILIBRIUM AT DIFFERENT TEMPERATURES.

————— BENZOL-CYCLOHEXANE
- - - - - TOLUOL-METHYLCYCLOHEXAN

H₂ PARTIAL PRESSURES



CONDITIONS OF EQUILIBRIUM FOR
AROMATIC CONCENTRATIONS

