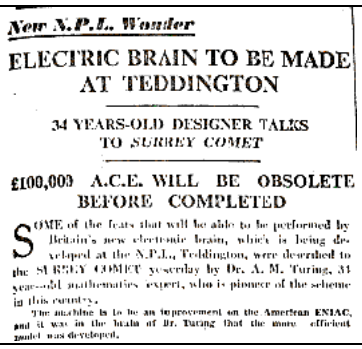
FYSE 1280 Fall 2025

Breaking The Code: The Enigma of Alan Turing

Assignment 19

For Friday, October 31



New N.P.L. Wonder

ELECTRIC BRAIN TO BE MADE AT TEDDINGTON

34 YEARS-OLD DESIGNER TALKS TO *SURREY COMET*

£100,000 A.C.E. WILL BE OBSOLETE BEFORE COMPLETED

SOME of the feats that will be able to be performed by Britain's new electronic brain, which is being developed at the N.P.L., Teddington, were described to the SURREY COMET yesterday by Dr. A. M. Turing, 34 year-old mathematics expert, who is pioneer of the scheme in this country.

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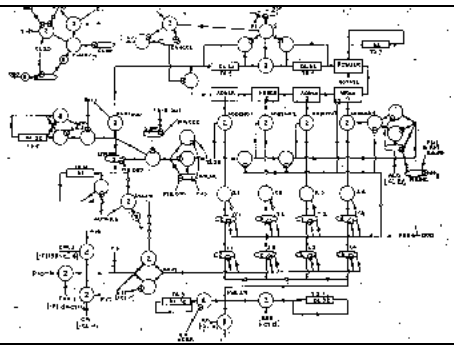
From the local suburban newspaper, the *Surrey Comet*, November 9, 1946.



A page of detailed electronic design from Turing's ACE report

Reading

Read Jack Copeland's "Artificial Intelligence" and Alan Turing's "Lecture on the Automatic Computing Engine" and "Intelligent Machinery" in *The Essential Turing.*.

Writing

Continue work investigating responses to Turing's "Computing Machinery and Intelligence Paper" in *Mind*

Problems On Turing Machines

1. Go carefully through Leavitt's description of the Turing machine that adds 2 and 2. Correct any errors that Leavitt may have made. Show the status of the tape after each step in the algorithm by constructing diagrams like those shown at the top of page 69.

2. Work carefully step by step through Leavitt's other descriptions of Turing's examples in Chapter 3.