

Mathematical reasoning may be regarded ather schematically as the exercise of a combination of two facilities, which we may all intuition and ingenuity.«

Alan Turing, Systems of Logic Based on Ordinals, 1939

The Beginnings

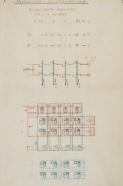
-1944

Koward Zuse, alors ligé de 25 ans, cien chez un constructeur aérovantes à la construction du Z1,

état de marche au sens moderne.

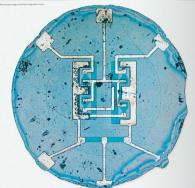
»Until a computer can become autonomous in the sense that it can act as an individual and intervene in our economy. there is of course still a long way to go. -

Konrad Zuse, Der Spieser, 1985



Model(1





In the mid-1500, mechanical strainables or described invisions, were components, such as turnisables or described invisions, were components of the surface of the surface

Mitte der 1950er-Jahre waren

world as decisively as did the telephone and the automobile, and world as decisively as the continuous convolucies of the continuous convolucies of the continuous co

tégné et ouvre ainsi la voie à un

completes. Jack Kilby and Bob Nove symbolize, if any-thing, only the modern lack Nove symbolize, if any-thing, only the modern lack of intrest in the humans behind the machines.*

T.R. Read, The Chip. 1664

T.R. Read, The Chip. 1664

»The chip has changed the

Rebot Royce (Int) and Jack Elling (Int) and Jack Elling (Int) swell years such phenographers with their inventions.



In 1950, Kilby completed his manture, digins in electrical engineering white also morting at radia equipment within also morting at radia equipment invends to freeza (section), where he made an immediate foreign the internation research by inventing the relegisted croud, the Sonoruner at

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with Kilby dee Physikinchedipreels. Fig. Bilby passes summable en ginne scientificate en 1950, basel en travale ent pour le fabriciert de radios somalab. Es 1968, it region somalab. Es somalabra somalab. Es premiet crimost inhight, somalab. Es premiet crimost inhight, somalab. Es remiet care. de considera del pourse.







The Mainframe Age

148

149

1945-1973