

## English Electric DEUCE: references.

Note that the background to all the early British stored-program projects from 1945 – 1951 is summarised in: ***Alan Turing and his Contemporaries: building the world's first computers***. Simon Lavington [ed]. Published by BCS in 2012. 111 pages; many illustrations. ISBN: 978-1-90612-490-8.

Another general account, spanning the period from the late 1940s to the mid-1960s, is: ***Early British Computers*** (Simon Lavington). Published by Manchester University Press (in the UK) and Digital Press (in the USA) in 1980. 139 pages, many illustrations. ISBN: 0-7190-0803-4. Available online at: <http://ed-thelen.org/comp-hist/EarlyBritish.html>

### DEUCE references.

1. A M Turing, *On Computable Numbers, with an application to the Entscheidungsproblem*. Proceedings of the London Mathematical Society, series 2, vol. 42, 1936. This paper is helpfully reproduced in a book edited by B J Copeland, entitled: *The essential Turing: the ideas that gave birth to the computer age*, published by Oxford University Press in 2004 (ISBN: 978-0-19-825079-1).
2. Alan Turing did not publish any specific paper on computer design, his work in this area being confined to internal reports. Fortunately, the more important of these reports – including the 1945/46 NPL document entitled *Proposed electronic calculator* are reproduced in another book edited by B J Copeland, called *Alan Turing's Automatic Computing Engine*, published by Oxford University Press in 2005 (ISBN: 0-19-856593-3).
3. John von Neumann, *First draft of a report on the EDVAC*. Contract no. W-670-ORD-4926 between the United States Army Ordnance Department and the University of Pennsylvania. Distributed by the Moore School of Electrical Engineering, University of Pennsylvania and dated 30th June 1945.
4. David Yates, *Turing's legacy: a history of computing at the National Physical Laboratory, 1945 – 1995*. Published by the Science Museum, London, in 1997. ISBN: 0-910805-94-7.
5. A C D (Colin) Haley, *DEUCE: a high-speed general-purpose computer*. Proc. IEE, vol. 103B, supplement 1 – 3, 1956, pages 165 – 173.
6. G M (George) Davis, *Programming manual for DEUCE, first issue*. Report number NS/y/12, 5th January 1955. Published by the Nelson Research Laboratories, English Electric Co. Ltd., Stafford.
7. D G Burnett-Hall & P A Samet, *Programming handbook for the computer DEUCE*. Royal Aircraft Establishment, Farnborough, technical note MS/38, April 1959.

**On-line information.**

John Barrett (Sydney, Australia) has put together a most useful DEUCE website – see: [English Electric DEUCE Computer \(archive.org\)](#) Snapshot on 6<sup>th</sup> January 2016, retrieved on 6<sup>th</sup> February 2024. Amongst many other valuable pieces of information, this site enables electronic copies of the following DEUCE original manuals to be down-loaded:

**English Electric Deuce Logical Design Manual** Complete HTML format - Text 276KB - Figures 50 -100KB each.

**English Electric Deuce Programming Manual** Complete HTML format - 153KB

**R.A.E. Deuce Programming Handbook** Pages 1 - 59 only HTML format.

**R.A.E. Deuce Programming Handbook** Complete manual in PDF format. 12.7MB (Thanks to David Green).

Another very useful and interesting DEUCE website has been put together by David Green – see: [English Electric DEUCE Computer \(archive.org\)](#) Snapshot on 6<sup>th</sup> January 2016, retrieved on 6<sup>th</sup> February 2024.