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**Lippe, Wolfram-M.**

**The history of computers. Volume 3. From the development of hardware to the WWW. (Die Geschichte der Rechenautomaten. Band 3. Von der Entwicklung der Hardware bis zum WWW.)**

Wiesbaden: Springer Vieweg (ISBN 978-3-642-36179-1/hbk; 978-3-642-36180-7/ebook). xiv, 170 p. (2013).

This is the last volume of a three-volume work on the history of computers (for Volumes 1 and 2 see [Zbl 1283.01002; Zbl 1283.01003]). It is devoted to the period from the development of hardware up to the WWW. It consists of four chapters. The first one is devoted to the development of hardware. It tells us about the early technologies, vacuum tube technology, semiconductors, miniaturization, personal computers as well as the development of mouses, keyboards and printers. Chapter 2 tells us about the development of programming, about various programming languages, operation systems and UNIX. Chapter 3 is devoted to artificial intelligence (neuronal nets, evolutionary algorithms, neurocomputers, etc.). In the last Chapter 4, the author reports on the development of the idea of the World Wide Web (WWW). The volume was published – similarly as the previous ones – in a very nice and careful way. The considerations are illustrated by many interesting pictures. A bibliography and an index are included. The whole three-volume set is a valuable contribution to the history of the development of computing and computing techniques. It shows the main stages in this development in a broad context.

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