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**Monaghan, John; Trouche, Luc; Borwein, Jonathan M.**

**Tools and mathematics. Instruments for learning.**

Mathematics Education Library 110. Cham: Springer (ISBN 978-3-319-02395-3/hbk; 978-3-319-02396-0/ebook). xxi, 483 p. (2016).

Publisher's description: This book is an exploration of tools and mathematics and issues in mathematics education related to tool use. The book has five parts. The first part reflects on doing a mathematical task with different tools, followed by a mathematician's account of tool use in his work. The second considers prehistory and history: tools in the development from ape to human; tools and mathematics in the ancient world; tools for calculating; and tools in mathematics instruction. The third part opens with a broad review of technology and intellectual trends, circa 1970, and continues with three case studies of approaches in mathematics education and the place of tools in these approaches. The fourth part considers issues related to mathematics instructions: curriculum, assessment and policy; the calculator debate; mathematics in the real world; and teachers' use of technology. The final part looks to the future: task and tool design and new forms of activity via connectivity and computer games.

*Classification:* U70 U60

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