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**An introduction to design-based research with an example from statistics education.**

Bikner-Ahsbabs, Angelika (ed.) et al., Approaches to qualitative research in mathematics education. Examples of methodology and methods. Dordrecht: Springer (ISBN 978-94-017-9180-9/hbk; 978-94-017-9181-6/ebook). Advances in Mathematics Education, 429-466 (2015).

Summary: This chapter arose from the need to introduce researchers, including Master and PhD students, to design-based research (DBR). In Sect. 16.1 we address key features of DBR and differences from other research approaches. We also describe the meaning of validity and reliability in DBR and discuss how they can be improved. Section 16.2 illustrates DBR with an example from statistics education.

*Classification:* D20 K40

*Keywords:* design based research; statistics education

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