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Mathematics in industry and teachers' training.

Damlamian, Alain (ed.) et al., Educational interfaces between mathematics and industry. Report on an ICMI-ICIAM-study. The 20th ICMI study. Cham: Springer (ISBN 978-3-319-02269-7/hbk; 978-3-319-02270-3/ebook). New ICMI Study Series 16, 223-228 (2013).

Summary: Mathematics, modelling and simulation, so-called mathematical technology, is emerging as a vital resource to achieve competitive edge in knowledge based industries and development of society. This vision about the role of mathematics has inspired efforts to enhance knowledge transfer between universities and industry. Especially, it means a challenge for university education. A modern view of mathematics should be reflected in curricula and educational practices. This has implication for the way how mathematical modelling should be inserted to the curricula at various levels. The main focus of this article is on undergraduate teaching at tertiary level. However, some important implications are suggested concerning the schools preparing students for universities.

Classification: D35 M15 D39 M19

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