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Titolo	Engineering practice in a global context : understanding the technical and the social / / editors, Bill Williams, Polytechnic Institute of Setubal, Portugal, Jose Figueiredo, IST, Technical University of Lisbon, Portugal, James Trevelyan, The University of Western Australia, Crawley, Australia
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Descrizione fisica	1 online resource (300 p.)
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Disciplina	338.4/762 338.4762
Soggetti	Engineering - Social aspects Engineering - Study and teaching (Higher)
Lingua di pubblicazione	Inglese
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Livello bibliografico	Monografia
Note generali	"A Balkema book."
Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Front Cover; Table of contents; Foreword; About the editors; Acknowledgement; Introduction; 1. On the historical nature of engineering practice; 2. Towards a theoretical framework for engineering practice; 3. The practical confrontation of engineers with a new design endeavour: The case of digital humanities; 4. Engineering design teams: Considering the forests and the trees; 5. Working together across disciplines; 6. Engineering problem-solving in social contexts: 'Collective wisdom' and 'ba'; 7. Finding workable solutions: Portuguese engineering experience 8. Going back to heterogeneous engineering: The case of micro and nanotechnologies 9. Professional lock-in: Structural engineers, architects and the disconnect between discourse and practice; 10. Observations of South Asian engineering practice; 11. Mathematics in engineering practice: Tacit trumps tangible; 12. Engineers' professional learning: Through the lens of practice; Glossary
Sommario/riassunto	This book characterizes the technical and social aspects of engineering practice and to look at ways that this characterization can be important in the design of engineering courses in higher education. The principal

contours of the work include the study of engineering practice and its relation to knowledge, competences and to cross-disciplinary and identity contexts. Empirical data on the practice of engineering professionals are presented from a range of companies in different national contexts, including engineering design companies and engineering innovation leaders--

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