

Sonja Felber

PIPELINE ENGINEERING





Sonja Felber born on March 21st, 1965, in St. Poelten, Austria, studied mechanical engineering - economy at Vienna University of Technology and finished with a PhD in mechanical engineering. During her studies at the University she additionally passed exams in the practical welding processes manual metal arc welding, gas metal arc welding, tungsten inert gas welding, and submerged arc welding. She is welding engineer, quality manager according to EN 45013, and auditor. Since 2002 she is university professor at Vienna University of Technology responsible for pipeline engineering, welding, and metallic materials.

Prof. Felber has a lot of publications at different conference, many of which are invited papers, and in different journals about pipelines, welding, mechanical technological testing, fracture mechanics, and quality management. She has written her second book on pipeline engineering, was editor of conference proceedings and chairwoman at different conferences, including international conferences, which she organized together with her colleges at Vienna University of Technology. She is holding lots of lectures, labors, and seminars for students of civil engineering, mechanical engineering, and chemical mechanical engineering additionally for postgraduate educations at different universities and has a lot of students doing their diploma or doctoral thesis or research projects under her supervision.

She was member of OEGS (Austrian Welding Federation), Eisenhuetten Oesterreich (The Austrian Society for Metallurgy and Materials), she was delegate for Austria to different Commissions of IIW (International Institute for Welding). From 1997 - 2007 she was additionally Coordination and Organization Manager for IIW in Austria and since 2006 she is chairman of IW SC XI-A (collection of strength and toughness data for pipelines).

Furthermore, she is delegate of Vienna University of Technology to FNA 037 Austrian Standardization Organization "Welding" and FNA 021 Austrian Standardization Organization "Steel and Iron".

She is honored in Who's Who in Science and Engineering, Who's Who in America Science and Engineering, Who's Who in the World, Who's Who in the 21st Century, 2000 Outstanding Intellectuals of the 20th Century, 2000 Outstanding People of the 20th Century, 2000 Outstanding Scientists of the 20th and 21st Century, Great Women of the 21st Century, Who's Who in America, and others.

Next to all her work she still finds time for her daughter and her hobbies painting, skiing, sailing, and diving.



FOREWORD

It is projected that the pipeline infrastructure around the world must be vastly increased in the next decades to meet the ever growing demand for convenient and economical liquid and gas fuels for modern and rapidly developing societies,. At the same time society must be assured that safety standards are adhered to despite the need for high-productivity welding in often adverse outdoor circumstances. Prof. Sonja Felber of the Technical University in Vienna is one of the leading experts in the world on all aspects of pipeline metallurgy and welding. She has compiled in her book "*Pipeline Engineering*" a unique and comprehensive volume covering all aspects of the state-of-the-art concerning pipeline construction including alloying for improved properties, fabrication, metallurgy, testing, design, economics and, of course welding.

The complete (792 page) "*Pipeline Engineering*" is available in English from OEGS (Oesterreichische Gesellschaft fuer Schweisstechnik) Arsenal Objekt 207 A-1030 Wien Austria.

Alternatively, through a special arrangement with the author and the publisher, students and engineers, readers with interest in some or only one of the subjects can benefit by purchasing individual downloadable sections of the text from the Welding Research Council, Inc.(WRC).

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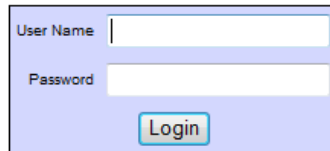
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