

Pipeline Pigging Technology

Pipeline Pigging TechnologyIndustrial Pigging TechnologyPipeline Pigging and Integrity TechnologyPipeline Pigging and Integrity Technology, Fourth EditionPipeline Pigging and Integrity TechnologyPetroleum AbstractsPipeline Pigging TechnologyProceedings – Offshore Technology ConferenceFruit ProcessingPipeline Pigging and Inspection TechnologyPipeline Pigging & Integrity TechnologyHydrocarbon ProcessingMultiproduct PlantsGas Engineering and ManagementOcean IndustryPipes and Pipelines InternationalThe Journal of Offshore TechnologyWastewater Technology Buyers' GuideOil & Gas JournalGas Abstracts J. N. H. Tiratsoo Gerhard Hiltcher John Tiratsoo John Tiratsoo J. N. H. Tiratsoo J. N. H. Tiratsoo John Tiratsoo J. N. H. Tiratsoo Joachim Rauch

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this practical reference book attempts to answer many of the questions and problems associated with pigging and pipeline inspection technology applied to oil gas and products pipelines both on and offshore the book discusses why when and how to pig a line intelligent pigs interpreting data economics environmental considerations and risk assessment and rehabilitation and repair among the new features of this edition are on line inspection techniques us regulations inspection of the trans alaska pipeline gel pig

technology interpreting intelligent pig results on line repair internal cleaning and coating and when to renew a pipeline

pigs are snug fitting plugs which are able to perform various maintenance tasks such as cleaning or removing deposits or blockages in pipe and pipeline systems from the inside a gaseous or liquid propellant is used to push the pig through the system this strategy avoids rinsing loss of valuable product provides reduction of adverse environmental impacts and gains high efficiency for less investment the book describes clearly and methodically the important basic equipment required for the planning and design of pigging units many practical examples are shown for the operation of industrial pigging units drawn from the authors longtime experience in this technology in this form and scope the book is an unrivaled presentation of this technology engineers and chemists who plan construct operate and maintain production plants in the chemical food cosmetics pharmaceutical and petrochemical industry will find an invaluable source of advice and reference for pigging units

this latest edition of the standard reference to pipeline pigging contains 41 new technical contributions from an international panel of expert authors the book provides a wide ranging overview of the best in pigging and integrity monitoring technology and thus makes essential reading for all involved in these increasingly important industries the contents are divided into six sections dealing with utility pigging corrosion issues intelligent pigging case studies and integrity management and prefaced by a section with a number of important but general papers the role of pigging in maintaining and expanding the pipeline infrastructure has become more critical due to projected increases in oil and gas consumption and thus transportation capacity at the same time the aging of networks in the us and elsewhere to 60 years 30 40 years beyond design life by some estimates and the installation of new lines over greater distances and more hostile environments have made the technical requirements and demand for pigging technology ever more acute the science of pigging is developing to provide the technology required to keep these pipelines in the best possible condition and to ensure their continuing integrity there are few problems that the pigging industry cannot solve nowadays and this book includes a number of case histories showing what can be achieved in practice but pigging is not just about high level inspection rather the basics of pipeline design and of utility pigging to accommodate the most mundane tasks are in the long term probably even more important the book provides a wide ranging overview of the best in pigging and integrity monitoring technology and thus makes essential reading for all involved in these

increasingly important industries

since publication of the first edition of pipeline pigging and integrity technology 25 years ago there have been massive advances the pigging and inspection industry superb high technology solutions have been developed using some of the most advanced and reliable technology paralleling the aerospace industry and feature assessments down to millimetric sizes are almost the norm inspection data interpretation has also developed to the stage where it is no longer a black art survey results can be examined and analysed on a client's own pc or laptop the thought of which was almost unheard of only a decade ago but still some basic questions remain unanswered probably the most basic of all being how clean is my pipeline and how best to design a pig launcher and receiver this book as with previous editions provides an overview of some of the latest thinking and achievements in the area of pigging technology and integrity management its content is 41 papers from the series of conferences entitled pipeline pigging integrity management now known as ppim that the publishers have organized in houston and elsewhere between 2007 and 2012 chosen to represent a wide range of issues concerning the pipeline industry and maintenance of its integrity printed in full color throughout

full text engineering e book

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in the chemical industry just in time delivery and ever more efficient processes are prime requisites for competitiveness high end products require a wide product diversity

resulting in lower quantities of each single product the answer to the problem are multiproduct plants designed to meet changing requirements already at design stage different potential requirements are taken into consideration allowing technical equipment to be installed according to the desired product reconfiguration can be achieved quickly through exchange of readily available components without costly refitting of the entire plant this is the first comprehensive source of information on this modern topic treating the different concepts known for multiproduct plants their technical realization possible uses for the production of chemicals the choice of the construction materials as well as safety considerations

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