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CRC Press 1138561231

Instruction Manual: Pipeline Engineering (2004)

CRC Press Revivals Series by Henry Liu

1. INTRODUCTION TO THIS PUBLICATION

This manual provides an overview and guide to the academic publication "Pipeline Engineering (2004)," part of the CRC Press Revivals series, authored by Henry Liu. This book addresses the historical fragmentation in pipeline engineering by consolidating essential aspects and types of pipeline engineering into a single comprehensive volume. It serves as a foundational text for practitioners and students in the field.

CRC REVIVALS

Pipeline Engineering

Henry Liu

 CRC Press
Taylor & Francis Group

Figure 1.1: Front cover of the "Pipeline Engineering (2004)" book. The cover features the title "Pipeline Engineering" prominently, along with the author's name, Henry Liu, and the publisher's imprint, CRC Press, under the "CRC Revivals" series. The background is a deep blue with a subtle, textured pattern.

2. NAVIGATING THE CONTENT

The book is structured into two main parts, each focusing on distinct but interconnected areas of pipeline engineering:

- **Part I: Pipe Flows**

This section offers an integrated examination of various pipe flow types. It covers incompressible and compressible flows, Newtonian and non-Newtonian fluids, slurry and multiphase flows, capsule flows, and the pneumatic transport of solids. This part provides a thorough understanding of the physical principles governing fluid and solid transport within pipelines.

- **Part II: Engineering Considerations**

This part focuses on the practical aspects of pipeline projects. It details the equipment, methodologies, and considerations necessary for the successful planning, design, construction, operation, and maintenance of pipeline systems. This section bridges theoretical knowledge with real-world application.

Readers are encouraged to review the table of contents within the book for a detailed chapter-by-chapter breakdown of topics.

3. AUTHOR INFORMATION

Henry Liu was a distinguished American civil engineer and the president of Freight Pipeline Company (FPC), later known as EcologicTech. He served as a professor of civil engineering at the University of Missouri (MU) in Columbia, Missouri, for over two decades. During his tenure at MU, he also directed the Capsule Pipeline Research Center, an initiative funded by the National Science Foundation aimed at developing capsule pipeline technology for freight transport, an innovative application for solid material transfer.

4. PUBLICATION SPECIFICATIONS

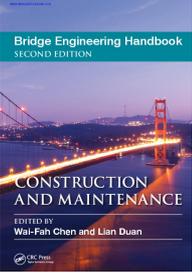
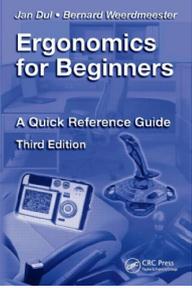
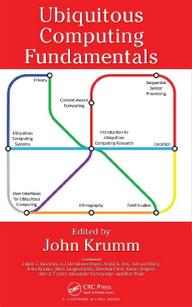
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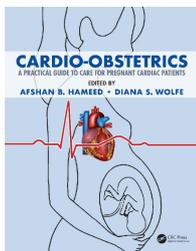
5. PUBLISHER INFORMATION

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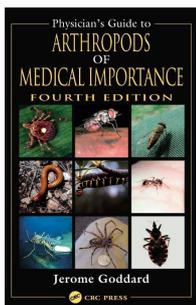
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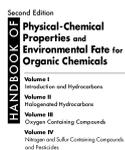
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