

## ASME Steam Tables-Compact Edition

Properties of Saturated and Superheated Steam in U.S. Customary and SI Units from

the IAPWS-IF97 International Standard for Industrial Use.

*Prepared by the ASME Research and Technology Committee on Water and Steam in Thermal Systems, Subcommittee on Properties of Steam*

This updated and concise booklet includes the following:

U.S. Customary Units

Table 1. Saturated Water and Steam: Temperature Table

Table 2. Saturated Water and Steam: Pressure Table

Table 3. Superheated Steam (1 to 15,000 psia)

SI Units

Table 4 Saturated Water and Steam: Temperature Table

Table 5. Saturated Water and Steam: Pressure Table

Table 6. Superheated Steam (0.005 to 100 MPa)

Unit Conversion Factors

Mollier Diagrams (U.S. and SI units)

**ISBN #:** 079180254X

**Published:** 2006

**Product Type:** Print-Book

**No. of pages:** 32

**List Price:** ¥ 162



## Manufacturing Engineering: Principles for Optimization, Third Edition

**Daniel T. Koenig**

"... Should be in the library of every Manager and Engineer involved in manufacturing operations. This book provides the information needed to understand the resources available to optimize performance and to outperform the competition."

Fully revised and updated, this book is a complete and detailed reference tool that offers the user a lifetime of knowledge and experience in one document. The third edition has added information on Project Management, Time Standards, Personnel Appraisal, Lean Manufacturing, and expanded treatment of Probability & Statistics. Summaries and review questions at the end of each chapter ensure the understanding and retention of the material presented.

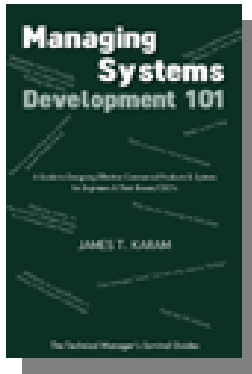
**ISBN #:** 0791802493

**Published:** 2007

**Product Type:** Print-Book

**No. of pages:** 536

**List Price:** ¥ 1339



**Managing  
Systems  
Development  
101: A Guide to  
Designing  
Effective  
Commercial  
Products &  
Systems for**

**Engineers & Their Bosses / CEOs**

**James T. Karam**

This book provides specific, practical advice for engineers who are advancing beyond their technical specialty and find themselves working with other specialties necessary to the development of a complex system or product. They continually face a variety of issues that were invariably never addressed in their schooling: dealing with specifications, project plans, and budgets; improving quality by working with "downstream" functions such as production and service; resolving incompatibilities and bugs under a variety of test conditions; providing technical direction and reviews; and more.

This book is concise, but the content is dense. As such, it will also provide a succinct refresher for more experienced professionals and their management when facing challenges.

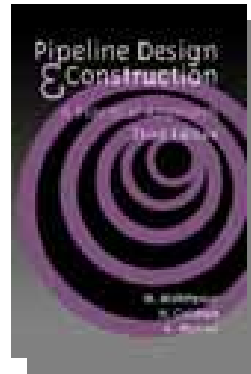
**ISBN #: 0791802582**

**Published: 2007**

**Product Type: Print-Book**

**No. of pages: 140**

**List Price: ¥ 486**



**Pipeline Design  
& Construction:  
A Practical  
Approach, Third  
Edition**

**Mo Mohitpour,  
Hossein Golshan  
and Alan Murray**

This third edition of this highly successful volume is fully updated and includes new information on buoyancy control, Trenchless Crossing methods, as well as on Compressor Fuel Calculations and Optimization, Hydrotesting and LPG Pipelining. This book offers straightforward, practical techniques for pipeline design and construction, making it an ideal professional reference, training tool, or comprehensive text.

The authors present the various elements that make up a single-phase liquid and gas pipeline system, including how to design, construct, commission, and assess pipelines and related facilities. They discuss gas and liquid transmission, compression, pumps, protection and integrity, procurement services, and the management of pipeline projects. More complex specialty fluids are also covered, including CO<sub>2</sub>, H<sub>2</sub>, slurry and multi-products.

**ISBN #: 0791802574**

**Published: 2007**

**Product Type: Print-Book**

**No. of pages: 752**

**List Price: ¥ 1350**



## Heat Transfer & Hydraulic Resistance at Supercritical

## Pressures in Power

### Engineering Applications

**Igor Pioro and Romney Duffey**

Mechanical and Nuclear Engineerings are currently working on advanced power plants intended for implementation within the next decade. One such Generation IV concept is a supercritical, water-cooled nuclear reactor. In addition, there are already hundreds of supercritical steam generators operating worldwide in the thermal power industry.

These system designs reduce emissions and lower cost by attaining high thermodynamic cycle and economic efficiency, utilizing both natural and forced circulation flows and optimizing heat exchanger and turbine layout and performance. Development, design, and successful operation of these power-generating units require knowledge of heat transfer, pressure drop, and thermal hydraulics at supercritical pressures. Demand for reliable information is high, and until now, no single book related to this topic has been published.

This book brings together and integrates the results from over 500 of the latest sources from the global publications devoted to heat transfer and hydraulic resistance of fluids flowing inside channels of various geometries at near-critical and supercritical pressures. This book is of interest to nuclear and mechanical

engineers in both industry and academia, who are concerned with the development and design of next-generation reactors, as well as engineers and technologists currently working with supercritical steam generators and power systems.

Included with this book is a free CD containing fully linked references to help readers navigate the wealth of material that is provided.

**ISBN #:** 0791802523

**Published:** 3/2007

**Product Type:** Print-Book

**No. of pages:** 300

**List Price:** ¥ 1620



## Companion Guide to the ASME Boiler & Pressure Vessel Code, Second Edition, Volumes 1, 2 & 3

**K.R. Rao**

Organized to provide the technical professional with ready access to practical solutions, this revised, three-volume, 2,100-page second edition brings to life essential ASME Codes with authoritative commentary, examples, explanatory text, tables, graphics, references, and annotated bibliographic notes. This new edition has been fully updated to the current 2004 Code, except where specifically noted in the text.

Volume 1 contains five parts: Power Boilers (Code Sections I and VII), Materials and Specifications (Code Section II), Rules for Construction of

Nuclear Power Plant Components (Code Section III, Divisions 1, 2, and 3), Power Piping (B31.1 Code) and Process Piping (B31.3 Code), and Heating Boilers (Code Sections IV and VI).

Volume 2 divides into six parts:

Nondestructive Examination (Code Section V); Pressure Vessels (Code Section VIII, Divisions 1, 2, and 3), Welding and Brazing Qualifications (Code Section IX), Fiber-Reinforced Plastic Pressure Vessels (Code Volume X), Rules for Inservice Inspection of Nuclear Power Plant Components (Code Section XI), and special topics of interest to ASME Boiler and Pressure Vessel Code Users and Practicing Engineers.

Volume 3 presents three parts. The first, Current Issues of B&PV Codes & Standards, covers BWR reactor internals, PWR reactor vessel integrity, and PWR reactor vessel alloy 600-related issues. The second, International Codes & Standards Related to ASME B&PV Codes, discuss the codes of the European Union, Canada, France, Japan, and the United Kingdom. The third part explores Other Ongoing Issues of Public Safety, including the new ASME Section XII Transport Tank Code.

**Published:** 2006

**Product Type:** Print-Book

**No. of pages:** 2000

**List Price:** ¥ 5940