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Chemical Engineering Progress 1996

Applied Process Design for Chemical and Petrochemical Plants: Volume 1 Ernest E. Ludwig 1995-02-23 This expanded edition introduces new design methods and is packed with examples, design charts, tables, and performance diagrams to add to the practical understanding of how selected equipment can be expected to perform in the process situation. A major addition is the comprehensive chapter on process safety design considerations, ranging from new devices and components to updated venting requirements for low-pressure storage tanks to the latest NFPA methods for sizing rupture disks and bursting panels, and more. *Completely revised and updated throughout *The definitive guide for process engineers and designers *Covers a complete range of basic day-to-day operation topics

HVAC and Chemical Resistance Handbook for the Engineer and Architect Tom Arimes 1994 The title is misleading until you check out the contents. It is all about HVAC and more. This compilation has organized data frequently used by Mechanical Engineers, Mechanical Contractors and Plant Facility Engineers. The book will end the frustration on a busy day searching for design criteria.

NUREG/CR, U.S. Nuclear Regulatory Commission 1980

Petroleum Production Engineering, A Computer-Assisted Approach Boyun Guo, 2011-04-01 Petroleum Production Engineering, A Computer-Assisted Approach provides handy guidelines to designing, analyzing and optimizing petroleum production systems. Broken into four parts, this book covers the full scope of petroleum production engineering, featuring stepwise calculations and computer-based spreadsheet programs. Part one contains discussions of petroleum production engineering fundamentals, empirical models for production decline analysis, and the performance of oil and natural gas wells. Part two presents principles of designing and selecting the main components of petroleum production systems including: well tubing, separation and dehydration systems, liquid pumps, gas compressors, and pipelines for oil and gas transportation. Part three introduces artificial lift methods, including sucker rod pumping systems, gas lift technology, electrical submersible pumps and other artificial lift systems. Part four is comprised of production enhancement techniques including, identifying well problems, designing acidizing jobs, guidelines to hydraulic fracturing and job evaluation techniques, and production optimization techniques. *Provides complete coverage of the latest techniques used for designing and analyzing petroleum production systems *Increases efficiency and addresses common problems by utilizing the computer-based solutions discussed within the book * Presents principles of designing and selecting the main components of petroleum production systems

Pressure Vessel Design Manual Dennis R. Moss 2012-12-31 Pressure vessels are closed containers designed to hold gases or liquids at a pressure substantially different from the ambient pressure. They have a variety of applications in industry, including in oil refineries, nuclear reactors, vehicle airbrake reservoirs, and more. The pressure differential with such vessels is dangerous, and due to the risk of accident and fatality around their use, the design, manufacture, operation and inspection of pressure vessels is regulated by engineering authorities and guided by legal codes and standards. Pressure Vessel Design Manual is a solutions-focused guide to the many problems and technical challenges involved in the design of pressure vessels to match stringent standards and codes. It brings together otherwise scattered information and explanations into one easy-to-use resource to minimize research and take readers from problem to solution in the most direct manner possible. Covers almost all problems that a working pressure vessel designer can expect to face, with 50+ step-by-step design procedures including a wealth of equations, explanations and data Internationally recognized, widely referenced and trusted, with 20+ years of use in over 30 countries making it an accepted industry standard guide Now revised with up-to-date ASME, ASCE and API regulatory code information, and dual unit coverage for increased ease of international use

Industrial Machinery Repair Ricky Smith 2003-08-18 Industrial Machinery Repair provides a practical reference for practicing plant engineers, maintenance supervisors, physical plant supervisors and mechanical maintenance technicians. It focuses on the skills needed to select, install and maintain electro-mechanical equipment in a typical industrial plant or facility. The authors focuses on "Best Maintenance Repair Practices" necessary for maintenance personnel to keep equipment operating at peak reliability and companies functioning more profitably through reduced maintenance costs and increased productivity and capacity. A number of surveys conducted in industries throughout the United States have found that 70% of equipment failures are self-induced. If the principles and techniques in this book are followed, it will result in a serious reduction in "self induced failures". In the pocketbook format, this reference material can be directly used on the plant floor to aid in effectively performing day-to-day duties. Data is presented in a concise, easily understandable format to facilitate use in the adverse conditions associated with the plant floor. Each subject is reduced to it simplest terms so that it will be suitable for the broadest range of users. Since this book is not specific to any one type of industrial plant and is useful in any type of facility. The new standard reference book for industrial and mechanical trades Accessible pocketbook format facilitates on-the-job use Suitable for all types of plant facilities

Internal Flow Systems D.S. Miller 2014

Hydrocarbon Processing 1977-10

Technical Abstract Bulletin

Handbook of Technical Writing Charles T. Brusaw 1997-08-15 New to this edition: Up-to-date information on on-line research and computer resources. A unique four-way access system enables users of the Handbook of Technical Writing to find what they need quickly and get on with the job of writing: 1. The hundreds of entries in the body of the Handbook are alphabetically arranged, so you can flip right to the topic at hand. Words and phrases in bold type provide cross-references to related entries. 2. The topical key groups alphabetical entries and page numbers under broader topic categories. This topical table of contents allows you to check broader subject areas for the specific topic you need. 3. The checklist of the writing process summarizes the opening essay on "Five Steps to Successful Writing" in checklist form with page references to related topics, making it easy to use the Handbook as a writing text. 4. The comprehensive index provides an exhaustive listing of related and commonly confused topics, so you can easily locate information even when you don't know the exact term you're looking for.

Career and Family Claudia Goldin 2021-10-12 "In Career and Family, Claudia Goldin builds on decades of complex research to examine the gender pay gap and the unequal distribution of labor between couples in the home. Goldin argues that although recent public and private discourse has brought these concerns to light, the actions taken-such as a single company slapped on the wrist or a few progressive leaders going on paternity leave-are the economic equivalent of tossing a band-aid to someone with cancer. These solutions, Goldin writes, treat the symptoms and not the disease of gender inequality in the workplace and economy. Goldin points to data that reveals how the pay gap widens further down the line in women's careers, about 10 to 15 years out, as opposed to those beginning careers after college. She examines five distinct groups of women over the course of the twentieth century: cohorts of women who differ in terms of career, job, marriage, and children, in approximated years of graduation-1900s, 1920s, 1950s, 1970s, and 1990s-based on various demographic, labor force, and occupational outcomes. The book argues that our entire economy is trapped in an old way of doing business; work structures have not adapted as more women enter the workforce. Gender equality in pay and equity in home and childcare labor are flip sides of the same issue, and Goldin frames both in the context of a serious empirical exploration that has not yet been put in a long-run historical context. Career and Family offers a deep look into census data, rich information about individual college graduates over their lifetimes, and various records and new sources of material to offer a new model to restructure the home and school systems that contribute to the gender pay gap and the quest for both family and career"--

Transport Phenomena and Unit Operations Richard G. Griskey 2005-01-14 The subject of transport phenomena has long been thoroughly and expertly addressed on the graduate and theoretical levels. Now Transport Phenomena and Unit Operations: A Combined Approach endeavors not only to introduce the fundamentals of the discipline to a broader, undergraduate-level audience but also to apply itself to the concerns of practicing engineers as they design, analyze, and construct industrial equipment. Richard Griskey's innovative text combines the often separated but intimately related disciplines of transport phenomena and unit operations into one cohesive treatment. While the latter was an academic precursor to the former, undergraduate students are often exposed to one at the expense of the other. Transport Phenomena and Unit Operations bridges the gap between theory and practice, with a focus on advancing the concept of the engineer as practitioner. Chapters in this comprehensive volume include: Transport Processes and Coefficients Frictional Flow in Conduits Free and Forced Convective Heat Transfer Heat Exchangers Mass Transfer; Molecular Diffusion Equilibrium Staged Operations Mechanical Separations Each chapter contains a set of comprehensive problem sets with real-world quantitative data, affording students the opportunity to test their knowledge in practical situations. Transport Phenomena and Unit Operations is an ideal text for undergraduate engineering students as well as for engineering professionals.

Pumping Station Design Garr M. Jones, PE, DEE 2011-04-19 Pumping Station Design, 3e is an essential reference for all professionals. From the expert city engineer to the new design officer, this book assists those who need to apply the fundamentals of various disciplines and subjects in order to produce a well-integrated pumping station that is reliable, easy to operate and maintain, and free from design mistakes. The depth of experience and expertise of the authors, contributors, and peers reviewing the content as well as the breadth of information in this book is unparalleled, making this the only book of its kind. * An award-winning reference work that has become THE standard in the field * Dispenses expert information on how to produce a well-integrated pumping station that will be reliable, easy to operate and maintain, and free from design mistakes * 60% of the material has been updated to reflect current standards and changes in practice since the book was last published in 1998 * New material added to this edition includes: the latest design information, the use of computers for pump selection, extensive references to Hydraulic Institute Standards and much more!

Development and Investigation of the Ballast-free Ship Concept Miltiadis D. Kotinis 2005

Standard Methods for the Examination of Water and Wastewater American Public Health Association 1915 "The signature undertaking of the Twenty-Second Edition was clarifying the QC practices necessary to perform the methods in this manual. Section in Part 1000 were rewritten, and detailed QC sections were added in Parts 2000 through 7000. These changes are a direct and necessary result of the mandate to stay abreast of regulatory requirements and a policy intended to clarify the QC steps considered to be an integral part of each test method. Additional QC steps were added to almost half of the sections."--Pref. p. iv.

Chemical Engineering Fluid Mechanics Ron Darby 2016-11-30 This book provides readers with the most current, accurate, and practical fluid mechanics related applications that the practicing BS level engineer needs today in the chemical and related industries, in addition to a fundamental understanding of these applications based upon sound fundamental basic scientific principles. The emphasis remains on problem solving, and the new edition includes many more examples.

Unwasted: Sacha Z. Scoblic 2011-01-28 "Triumphant, moving, and wildly entertaining. This is an unabashed and completely relatable account of getting clean and getting a life."—Steve Geng, author of *Thick* as Thieves The single glass of wine with dinner . . . the cold beer on a hot day . . . the champagne flute raised in a toast . . . what I'd drink if Hunter S. Thompson wanted to get wasted with me . . . these are my fantasies lately. Too bad I've gone sober. When Sacha Z. Scoblic was drinking, she was a rock star; the days were rough and the nights filled with laughter and blackouts. Then she gave it up. She had to. Here are her adventures in an utterly and maddeningly sober world—and how she discovered that nothing is as odd and fantastic as life without a drink in hand. . . "A gripping, inspiring tale that picks up where most sobriety memoirs leave off. . . This is a story for anyone trying to enact meaningful change in their lives."—Emma McLaughlin and Nicola Kraus, #1 New York Times bestselling coauthors of *The Nanny Diaries* "Hilarious and heartbreaking. Unwasted is a traveler's guide to the perilous, wondrous land of sobriety. Scoblic's scorched, sweet prose is the work of a writer at the top of her form."—Jennifer Finney Boylan, New York Times bestselling author of *She's Not There* "Scoblic's testament to life on the wagon is pertinent and raffish, marked by considerable candor and humor. A dryly witty, spirited memoir."—Kirkus Reviews

Proceedings-Refining Department American Petroleum Institute, Refining Department 1982

Thermal/Structural Analysis of a Transpiration Cooled Nozzle 1992

Temporary Structure Design Christopher Souder 2014-11-10 A comprehensive guide to temporary structures in construction projects Temporary Structure Design is the first book of its kind, presenting students and professionals with authoritative coverage of the major concepts in designing temporary construction structures. Beginning with a review of statistics, it presents the core topics needed to fully comprehend the design of temporary structures: strength of materials; types of loads on temporary structures; scaffolding design; soil properties and soil loading; soldier beam, lagging, and tiebacks; sheet piling and strutting; pressure and forces on formwork and falsework; concrete formwork design; falsework; bracing and guying; trestles and equipment bridges; and the support of existing structures. Temporary structures during construction include scaffolding, formwork, shoring, ramps, platforms, earth-retaining structures, and other construction structures that are not part of the permanent installation. These structures are less regulated and monitored than most other parts of the construction process, even though they are often supporting tons of steel or concrete—and the safety of all workers on the site depends on these structures to perform as designed. Unfortunately, most tragic failures occur during construction and are usually the result of improperly designed, constructed, and/or maintained temporary structures. Temporary Structure Design fills an important need in the literature by providing a trusted, comprehensive guide to designing temporary construction structures. Serves as the first book to provide a design-oriented approach to the design of temporary structures Includes coverage of the various safety considerations inherent in temporary structure design and construction Provides information on

estimating cost and schedules for these specialized structures Covers formwork and falsework, as well as personnel protection, production support, environmental protection, and foundational structures If you're a student or a professional working in the field of construction or structural engineering, Temporary Structure Design is a must-have resource you'll turn to again and again.

Handbook of Hydraulic Resistance I. E. Idelchik 2005 Product Dimensions: 9.7 x 6.6 x 2.1 inches The Handbook has been composed on the basis of processing, systematization, and classification of the results of a great number of investigations published at different time. The essential part of the book is the outcome of investigations carried out by the author.The present edition of this Handbook should assist in increasing the quality and efficiency of the design and usage of industrial power engineering and other constructions and also of the devices and apparatus through which liquids and gases move.

Cameron Hydraulic Data 2018-09-15

Proceedings American Petroleum Institute, Refining Department 1983

Pipe Flow Donald C. Rennels 2022-04-20 Pipe Flow Provides detailed coverage of hydraulic analysis of piping systems, revised and updated throughout Pipe Flow: A Practical and Comprehensive Guide provides the information required to design and analyze piping systems for distribution systems, power plants, and other industrial operations. Divided into three parts, this authoritative resource describes the methodology for solving pipe flow problems, presents loss coefficient data for a wide range of piping components, and examines pressure drop, cavitation, flow-induced vibration, and other flow phenomena that affect the performance of piping systems. Throughout the book, sample problems and worked solutions illustrate the application of core concepts and techniques. The second edition features revised and expanded information throughout, including an entirely new chapter that presents a mixing section flow model for accurately predicting jet pump performance. This edition includes additional examples, supplemental problems, and a new appendix of the speed of sound in water. With clear explanations, expert guidance, and precise hydraulic computations, this classic reference text remains required reading for anyone working to increase the quality and efficiency of modern piping systems. Discusses the fundamental physical properties of fluids and the nature of fluid flow Demonstrates the accurate prediction and management of pressure loss for a variety of piping components and piping systems Reviews theoretical research on fluid flow in piping and its components Presents important loss coefficient data with straightforward tables, diagrams, and equations Includes full references, further reading sections, and numerous example problems with solution Pipe Flow: A Practical and Comprehensive Guide, Second Edition is an excellent textbook for engineering students, and an invaluable reference for professional engineers engaged in the design, operation, and troubleshooting of piping systems.

Pipe Fitting and Piping Handbook Louis Gary Lamit 1984

Pipe Flow Donald C. Rennels 2012-04-02 Pipe Flow provides the information required to design and analyze the piping systems needed to support a broad range of industrial operations, distribution systems, and power plants. Throughout the book, the authors demonstrate how to accurately predict and manage pressure loss while working with a variety of piping systems and piping components. The book draws together and reviews the growing body of experimental and theoretical research, including important loss coefficient data for a wide selection of piping components. Experimental test data and published formulas are examined, integrated and organized into broadly applicable equations. The results are also presented in straightforward tables and diagrams. Sample problems and their solution are provided throughout the book, demonstrating how core concepts are applied in practice. In addition, references and further reading sections enable the readers to explore all the topics in greater depth. With its clear explanations, Pipe Flow is recommended as a textbook for engineering students and as a reference for professional engineers who need to design, operate, and troubleshoot piping systems. The book employs the English gravitational system as well as the International System (or SI).

Machine Drawing K. L. Narayana 2009-06-30 About the Book: Written by three distinguished authors with ample academic and teaching experience, this textbook, meant for diploma and degree students of Mechanical Engineering as well as those preparing for AMIE examination, incorporates the latest st

Consulting-specifying Engineer 1995

The Trouble with Harry Hay Stuart Timmons 2012-02 A centenary edition of Stuart Timmons' award-winning biography of Harry Hay, founder of the modern gay rights movement.

Thermal Energy Systems Steven G. Penoncello 2015-01-20 Model a Thermal System without Lengthy Hand Calculations Before components are purchased and a thermal energy system is built, the effective engineer must first solve the equations representing the mathematical model of the system. Having a working mathematical model based on physics and equipment performance information is crucial to finding a system's operating point. Thermal Energy Systems: Design and Analysis offers a fundamental working knowledge of the analysis and design of thermal-fluid energy systems, enabling users to effectively formulate, optimize, and test their own design projects. Providing an understanding of the basic concepts of simulation and optimization, and introducing simulation and optimization techniques that can be applied to a system model, this text covers the basic foundations of thermal-fluid system analysis and design. It addresses hydraulic systems, energy systems, system simulation, and system optimization. In addition, it incorporates both SI and English units, and builds current state-of-the-art computer modeling skills throughout the book. Topics covered include: Review of thermal engineering concepts Engineering economics principles Application of conservation and balance laws Review of fluid flow fundamentals Minor losses Series and parallel pipe networks Economic pipe diameter Pump performance and selection Cavitation Series and parallel pump systems The affinity laws for pumps Heat exchangers, LMTD, and e-NTU methods Regenerative HX, condensers, evaporators, and boilers Double-pipe heat exchangers Shell and tube heat exchangers Plate and frame heat exchangers Cross-flow heat exchangers Thermal energy system simulation Fitting component performance data Optimization using Lagrange multipliers Optimization using software Thermal Energy Systems: Design and Analysis covers the concepts and the skills needed to plan, model, create, test, and optimize thermal systems; and to use computer simulation software through its use of Engineering Equation Solver (EES).

Chemical Engineering 1995

Parenting Matters National Academies of Sciences, Engineering, and Medicine 2016-11-21 Decades of research have demonstrated that the parent-child dyad and the environment of the familyâ€"which includes all primary caregiversâ€"are at the foundation of children's well-being and healthy development. From birth, children are learning and rely on parents and the other caregivers in their lives to protect and care for them. The impact of parents may never be greater than during the earliest years of life, when a child's brain is rapidly developing and when nearly all of her or his experiences are created and shaped by parents and the family environment. Parents help children build and refine their knowledge and skills, charting a trajectory for their health and well-being during childhood and beyond. The experience of parenting also impacts parents themselves. For instance, parenting can enrich and give focus to parents' lives; generate stress or calm; and create any number of emotions, including feelings of happiness, sadness, fulfillment, and anger. Parenting of young children today takes place in the context of significant ongoing developments. These include: a rapidly growing body of science on early childhood, increases in funding for programs and services for families, changing demographics of the U.S. population, and greater diversity of family structure. Additionally, parenting is increasingly being shaped by technology and increased access to information about parenting. Parenting Matters identifies parenting knowledge, attitudes, and practices associated with positive developmental outcomes in children ages 0-8; universal/preventive and targeted strategies used in a variety of settings that have been effective with parents of young children and that support the identified knowledge, attitudes, and practices; and barriers to and facilitators for parents' use of practices that lead to healthy child outcomes as well as their participation in effective programs and services. This report makes recommendations directed at an array of stakeholders, for promoting the wide-scale adoption of effective programs and services for parents and on areas that warrant further research to inform policy and practice. It is meant to serve as a roadmap for the future of parenting policy, research, and practice in the United States.

Carbon Dioxide Capture and Storage Intergovernmental Panel on Climate Change. Working Group III. 2005-12-19 IPCC Report on sources, capture, transport, and storage of CO2, for researchers, policy-makers and engineers.

Scrambling for Africa Johanna Tayloe Crane 2013-09-15 Countries in sub-Saharan Africa were once dismissed by Western experts as being too poor and chaotic to benefit from the antiretroviral drugs that transformed the AIDS epidemic in the United States and Europe. Today, however, the region is courted by some of the most prestigious research universities in the world as they search for "resource-poor" hospitals in which to base their international HIV research and global health programs. In Scrambling for Africa, Johanna Tayloe Crane reveals how, in the space of merely a decade, Africa went from being a continent largely excluded from advancements in HIV medicine to an area of central concern and knowledge production within the increasingly popular field of global health science. Drawing on research conducted in the U.S. and Uganda during the mid-2000s, Crane provides a fascinating ethnographic account of the transnational flow of knowledge, politics, and research money—as well as blood samples, viruses, and drugs. She takes readers to underfunded Ugandan HIV clinics as well as to laboratories and conference rooms in wealthy American cities like San Francisco and Seattle where American and Ugandan experts struggle to forge shared knowledge about the AIDS epidemic. The resulting uncomfortable mix of preventable suffering, humanitarian sentiment, and scientific ambition shows how global health research partnerships may paradoxically benefit from the very inequalities they aspire to redress. A work of outstanding interdisciplinary scholarship, Scrambling for Africa will be of interest to audiences in anthropology, science and technology studies, African studies, and the medical humanities.

Carving Nature at Its Joints Joseph Keim Campbell 2011-10-28 Reflections on the metaphysics and epistemology of classification from a distinguished group of philosophers. Contemporary discussions of the success of science often invoke an ancient metaphor from Plato's Phaedrus: successful theories should "carve nature at its joints." But is nature really "jointed"? Are there natural kinds of things around which our theories cut? The essays in this volume offer reflections by a distinguished group of philosophers on a series of intertwined issues in the metaphysics and epistemology of classification. The contributors consider such topics as the relevance of natural kinds in inductive inference; the role of natural kinds in natural laws; the nature of fundamental properties; the naturalness of boundaries; the metaphysics and epistemology of biological kinds; and the relevance of biological kinds to certain questions in ethics. Carving Nature at Its Joints offers both breadth and thematic unity, providing a sampling of state-of-the-art work in contemporary analytic philosophy that will be of interest to a wide audience of scholars and students concerned with classification.

Fundamentals of Thermal-fluid Sciences Yunus A. Çengel 2012 THE FOURTH EDITION IN SI UNITS of Fundamentals of Thermal-Fluid Sciences presents a balanced coverage of thermodynamics, fluid mechanics, and heat transfer packaged in a manner suitable for use in introductory thermal sciences courses. By emphasizing the physics and underlying physical phenomena involved, the text gives students practical examples that allow development of an understanding of the theoretical underpinnings of thermal sciences. All the popular features of the previous edition are retained in this edition while new ones are added. THIS EDITION FEATURES: A New Chapter on Power and Refrigeration Cycles The new Chapter 9 exposes students to the foundations of power generation and refrigeration in a well-ordered and compact manner. An Early Introduction to the First Law of Thermodynamics (Chapter 3) This chapter establishes a general understanding of energy, mechanisms of energy transfer, and the concept of energy balance, thermo-economics, and conversion efficiency. Learning Objectives Each chapter begins with an overview of the material to be covered and chapter-specific learning objectives to introduce the material and to set goals. Developing Physical Intuition A special effort is made to help students develop an intuitive feel for underlying physical mechanisms of natural phenomena and to gain a mastery of solving practical problems that an engineer is likely to face in the real world. New Problems A large number of problems in the text are modified and many problems are replaced by new ones. Some of the solved examples are also replaced by new ones. Upgraded Artwork Much of the line artwork in the text is upgraded to figures that appear more three-dimensional and realistic. MEDIA RESOURCES: Limited Academic Version of EES with selected text solutions packaged with the text on the Student DVD. The Online Learning Center (www.mheducation.com/olc/cengel/ITFS4e) offers online resources for instructors including PowerPoint® Lecture slides, and complete solutions to homework problems. McGraw-Hill's Complete Online Solutions Manual Organization System (http://cosmos.mhhe.com/) allows instructors to streamline the creation of assignments, quizzes, and tests by using problems and solutions from the textbook, as well as their own custom material.

25th Conference on Agricultural and Forest Meteorology ; 12th Joint Conference on the Applications of Air Pollution Meteorology with A & WMA ; Fourth Symposium on the Urban Environment, 20-24 May 2002, Norfolk, Virginia 2002

The Complete Story of Sadako Sasaki Masahiro Sasaki 2020-04-07 For the first time, middle readers can learn the complete story of the courageous girl whose life, which ended through the effects of war, inspired a worldwide call for peace. In this book, author Sue DiCiccio and Sadako's older brother Masahiro tell her complete story in English for the first time—how Sadako's courage throughout her illness inspired family and friends, and how she became a symbol of all people, especially children, who suffer from the impact of war. Her life and her death carry a message: we must have a wholehearted desire for peace and be willing to work together to achieve it. Sadako Sasaki was two years old when the atomic bomb was dropped on her city of Hiroshima at the end of World War II. Ten years later, just as life was starting to feel almost normal again, this athletic and enthusiastic girl was fighting a war of a different kind. One of many children affected by the bomb, she had contracted leukemia. Patient and determined, Sadako set herself the task of folding 1000 paper cranes in the hope that her wish to be made well again would be granted. Illustrations and personal family photos give a glimpse into Sadako's life and the horrors of war. Proceeds from this book are shared equally between The Sadako Legacy NPO and The Peace Crane Project.

Machine Design 1998