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This book will help researchers and engineers in the design of ethical systems for robots, addressing the philosophical questions that arise and exploring modern applications such as assistive robots and self-driving cars. The contributing authors are among the leading academic and industrial researchers on this topic and the book will be of value to researchers, graduate students and practitioners engaged with robot design, artificial intelligence and ethics. The Dock Manual is the only book devoted entirely to planning, constructing, and maintaining residential docks on rivers, lakes, and oceans. Das Nachschlagewerk zur Konstruktion mit Holz und Holzwerkstoffen mit einem ausführlichen Kapitel zum Thema Ökologie, bauphysikalischen Grundlagen mit den Schwerpunkten Wärme-, Schall- und Brandschutz. Im Bereich der Tragwerksplanung spielen die neuen Verbindungsmittel eine wichtige Rolle. Whether it be as translucent sheets, broadly

stretched membranes, and inflated foil cushions or in graceful, organic curves, architecture today is utilizing plastics in the most disparate forms and for a wide variety of purposes. Innovative technical developments are constantly improving its material properties; at the same time, there is a growing new awareness of its potential as a construction material. While plastics used to be employed primarily as an inexpensive variant on traditional building materials, they are increasingly regarded in the construction world today as a serious and viable alternative, be it as supporting structures, roofs, facades, or elements of interior design and decoration. Thanks in large part to this inherent self-sufficiency, plastics are currently enjoying an unprecedented surge in popularity, even among the international architectural avant-garde – as multiwall sheets or corrugated, fiber-reinforced panels, or as filling between glass panes. And the new generation of ecological bioplastics also pays tribute to the debate on sustainability, ridding plastics of their lingering reputation as environmental offenders. From the history of plastics and membranes in architecture to their material properties and requirements in construction and design, the *Plastics and Membranes Construction Manual* cuts to the chase, providing the kind of solid and comprehensive overview of the subject that readers have come to expect from the *Im DETAIL* series. Selected project examples round off the reference work and make it indispensable for the day-to-day life of the professional planner and for every architecture library.

Log buildings are embedded deeply into North American history and culture. For more than one thousand years, builders have been weaving logs into homes, shelters, barns, and churches. Today, however, the buildings where we live and work are rarely handmade from natural materials. In this context, handcrafted, scribe-fitted natural log buildings are an attractive and uplifting alternative to conventional buildings and building materials. This book tells you what you need to know to build your own log home and also reveals the deep rhythms and patterns of log construction. Author Robert Chambers shows how to take naturally shaped, tapered, round logs and scribe-fit them one to another so that they look like they actually grew together in the woods. The *Log Construction Manual* is filled with information available nowhere else, including the Log Selection Rules, Chambers's brilliantly simple method for choosing which log to use next; instructions for building hip and valley log rafters and roof trusses from full-round logs; step-by-step directions for laying out the sill logs for virtually any floor plan, including hexagons, prows, and more; state-of-the-art compression-fit saddle notches and underscribing to keep fits tight over time; details on scribing and cutting long grooves and corner notches just like the pros; and more. Chambers also offers advice on organizing and financing a log home

project and has loads of experience to share on cutting costs and avoiding common pitfalls. He presents practical ideas for saving money and controlling costs. Although handcrafted log homes are expensive to buy, they are within reach for many as owner-managed building projects. Written concisely with great care in explaining important details, the Log Construction Manual brings clarity, insight, depth, and even humor to the log builder's craft. This is a comprehensive book for log home owner-builders, beginners as well as professionals. Industrial Construction Estimating Manual focuses on industrial process plants and enables the contractor, subcontractor, and engineer to use methods, models, procedures, formats, and technical data for developing industrial process plant construction estimates. The manual begins with an introduction devoted to labor, data collection, verification of data, coding, productivity measurement, the unit quantity model, and computer-aided cost estimating. It goes on to provide information on construction materials, database systems, work estimating, computer-aided estimating, detailed labor estimates, bid assurance, and detailed applications to construction. Practical examples based on historical data collected from past installations are also included as well as a detailed glossary, Excel and mathematical formulas, metric/standard conversions, area and volume formulas, and boiler man-hour tables. Industrial Construction Estimating Manual aids contractors, subcontractors, and engineers with a balance-detailed estimating method using the unit quantity model and is an excellent resource for those involved in engineering, technology, and construction estimating. Provides a detailed estimating method using the unit-quantity model to prepare construction estimates. Delivers information on construction materials, databases, labor estimates, computer-aided estimating, bid assurance, and applications to construction. Utilizes historical data, from a database of previous similar work, calculates material cost and labor by category, and produces both summary and detailed man-hour and cost estimates. The Construction Manuals from Edition Detail are among the most important reference works in the specialist literature. The latest volume shows the potential of the material concrete and documents comprehensively the technical principles of using concrete in construction. Chapters cover the history of the material, the properties of concrete, reinforced concrete, and prestressed concrete, the treatment of its surface. Also covered are the basic principles of statics for large and small structures, and the building requirements with respect to heat, damp, sound-proofing and fire protection according to the most recent norms and standards. Finally a large number of built examples are presented from illustrations of the complete structure down to detailed plans, showing the broad spectrum of applications for concrete in

contemporary building. All plans have been specially produced by the editorial department Detail for this book and for ease of comparison, they have been drawn to the same scale. Concrete as a building material -- Concrete mix compounds -- Proportioning concrete mix -- Excavation -- Laying out the building -- Design of concrete forms -- Form materials and how to use them -- Construction of pier and footing forms -- Construction of foundation wall forms -- Formwork for openings in concrete walls -- Formwork for steps -- Formwork for floors and sidewalk slabs -- How to make beam and girder forms -- Forms for arched openings -- Handling and placing concrete -- Finishing concrete -- Curing and patching concrete -- Effects of temperature -- Reinforced concrete construction -- Precast concrete -- Cleaning concrete and masonry methods -- Appendix A : Method of making slump test for consistency of Portland cement concrete -- Appendix B : Estimating quantities and labor hours for concrete, forms and reinforcing. Unique in that it is the only reference organized according to the 16 divisions of the CSI MASTERFORMAT. This revision broadens its scope to include a number of changes in the MASTERFORMAT since 1980. Additional material focuses on such business areas as contract documents, bonding, construction management, OSHA, financing, project management, design-build and much more. The new index has been alphabetized making it much easier to use. Construction Calculations is a manual that provides end users with a comprehensive guide for many of the formulas, mathematical vectors and conversion factors that are commonly encountered during the design and construction stages of a construction project. It offers readers detailed calculations, applications and examples needed in site work, cost estimation, piping and pipefitting, and project management. The book also serves as a refresher course for some of the formulas and concepts of geometry and trigonometry. The book is divided into sections that present the common components of construction. The first section of the books starts with a refresher discussion of unit and systems measurement; its origin and evolution; the standards of length, mass and capacity; terminology and tables; and notes of metric, U.S, and British units of measurements. The following concepts are presented and discussed throughout the book: Conversion tables and formulas, including the Metric Conversion Law and conversion factors for builders and design professionals Calculations and formulas of geometry, trigonometry and physics in construction Rudiments of excavation, classification, use of material, measurement and payment Soil classification and morphology, including its physicochemical properties Formulas and calculations needed for soil tests and evaluations and for the design of retaining structures Calculations relating to concrete and masonry Calculations of

the size/weight of structural steel and other metals Mechanical properties of wood and processing of wood products Calculations relating to sound and thermal transmission Interior finishes, plumbing and HVAC calculations Electrical formulas and calculations Construction managers and engineers, architects, contractors, and beginners in engineering, architecture, and construction will find this practical guide useful for managing all aspects of construction. Work in and convert between building dimensions, including metric Built-in right-angle solutions Areas, volumes, square-ups Complete stair layouts Roof, rafter and framing solutions Circle: arcs, circumference, segments The Construction Inspection Manual includes all facets of public infrastructure inspection including the roles and responsibilities of an inspector, pre-construction planning, documentation, communication risk management and legal issues, scheduling and project close-out. Technical areas covered include Earthwork, Excavation and Trench Safety, Confined Space Safety, Underground Piping Installation, General Concrete, Street and Surface Improvements, Roadway Lighting, Traffic Signals, and Landscape and Irrigation. Information on Trenchless Utility Installation Rehabilitation and Introduction to Structures were expanded in this updated manual. Two new modules were added to the manual Construction Inspection of Stormwater Control Measures and Pumping and Treatment Facilities for Water and Wastewater. This handbook addresses problems facing the engineer when preparing to build, both during the contract bidding phase and after a contract has been concluded. It offers clear guidelines for planning the resources and machinery on site, as well as the safe positioning of roads, cranes, storage and temporary buildings. Site planning activities are presented here in logical sequence, offering an efficient and safe design of the construction site and of the temporary works. The book describes the process of engineering preparation of on-site construction works in all phases of the construction life-cycle, from the design phase - preparing the financial plan and procurement scheme for the owner before tendering the contract; the tendering phase; and after bid completion. A list of procedures is presented for planning the construction site in order to simplify the engineer's work of site and temporary works planning. The Engineer's Manual of Construction Site Planning is for all those involved in the planning of construction sites, construction managers, construction engineers and quantity surveyors, as well as for students in civil engineering and construction. Ensuring workers' safety is a very important part of the cost of doing business. With this practical, easy-to-use guide to construction safety, builders and contractors can educate their crew and themselves about necessary safety techniques and emergency procedures. The book also includes

information on OSHA and other regulatory standards. 200 illustrations. THE DEFINITIVE DESIGN AND CONSTRUCTION INDUSTRY SOURCE FOR BUILDING WITH WOOD— NOW IN A THOROUGHLY UPDATED SIXTH EDITION Since its first publication in 1966, Timber Construction Manual has become the essential design and construction industry resource for building with structural glued laminated timber. Timber Construction Manual, Sixth Edition provides architects, engineers, contractors, educators, and related professionals with up-to-date information on engineered timber construction, including the latest codes, construction methods, and authoritative design recommendations. Content has been reorganized to flow easily from information on wood properties and applications to specific design considerations. Based on the most reliable technical data available, this edition has been thoroughly revised to encompass: A thorough update of all recommended design criteria for timber structural members, systems, and connections An expanded collection of real-world design examples supported with detailed schematic drawings New material on the role of glulam in sustainable building practices The latest design and construction codes, including the 2012 National Design Specification for Wood Construction, AITC 117-2010, and examples featuring ASCE 7-10 and IBC 2009 More cross-referencing to other available AITC standards on the AITC website Since 1952, the AMERICAN INSTITUTE OF TIMBER CONSTRUCTION has been the national technical trade association of the structural glued laminated timber industry. AITC-recommended building and design codes for wood-based structures are considered authoritative in the United States building industry. This manual provides the reader with an accurate and convenient method for estimating direct labor for general construction work for any given system, plant, or location. Though this book, the reader has a reliable process of obtaining and streamlining an efficient model of operation. A construction material that once was innovative and modern and then fell somewhat into disrepute through some of the quite radical post-war architecture, concrete is today very popular with planners and builders due to its multifaceted nature. The material offers enormous potential through its extensive load-bearing capacities but also due to the diversity of its properties and surface characteristics. In addition to the technical possibilities customarily attributed to concrete construction, the construction material is on the ascendant not least due to the current debate regarding energy efficiency and sustainability, since it seems tailor-made for the realization of the relevant requirements. It is not just the design and construction of concrete load-bearing structures that are the focus of this publication, but also the materiality and thus the

haptic and sensuous side of the material in particular. That's because visible concrete in "smooth gray flawless" quality is not everything that concrete has to offer. Even designers and interior decorators develop furniture and space innovations of unimagined sensuality. The Modern Concrete Construction Manual provides the planner with well-founded expert information regarding the construction material of concrete, ranging from manufacturing to materiality to the design of concrete load-bearing structures, including current options for digital design and production processes. As a standard reference volume, the publication offers comprehensive and detailed insights regarding topics including cost-effectiveness, energy and sustainability, renovation, design and interior decoration. An extensive index of works with successful real-life examples provides inspiration and invites the reader to make modern use of a classical construction material. A practical guide to the construction of thesauri for use in information retrieval, written by leading experts in the field. Includes: planning and design; vocabulary control; specificity and compound terms; structure and relationships; auxiliary retrieval devices; multilingual thesauri; AAT Compound Term Rules. The US ANSI/NISO Z39.19 Thesaurus construction standard is also covered. "Since its first publication in 1966, Timber Construction Manual has become the definitive design and construction industry source for building with wood, both sawn lumber and structural glued laminated timber. Timber Construction Manual, Fifth Edition features an improved organization of content to provide architects, engineers, contractors, educators, the laminating and fabricating industry, and all others having a need for reliable, up-to-date technical data and recommendations on engineered timber construction with essential knowledge of wood and its application to specific design considerations."--BOOK JACKET. Glass offers a wide variety of possible applications for the realization of even the most ambitious designs in architecture, and in the past two decades it has experienced an unparalleled burst of innovation. For planners, this means working constantly with this high-performance material. In compact and appealing form, the completely revised Glass Construction Manual presents the current state of the art on planning and building with glass, from the history through the technical foundations all the way to the most innovative applications. Astonishing perspectives on thermal insulation and solar protection and the addition of thoughtfully selected new practical examples round off this comprehensive reference work. Building with straw bales is a technique pioneered a century ago in the state of Nebraska. In recent years there has been a renaissance in the use of straw as a building material largely in the American Southwest, but also in Canada, Australia, France, Holland,

Germany, Austria and China. Straw is a renewable resource with excellent insulating properties. It is a cheap and easy-to-use option for self-builders, and even large-scale structures can be erected using timber framework filled with straw. This book is a practical, hands-on guide to building with straw. Fire safety, protection against moisture, damp, pests and parasites are treated in detail. Numerous on-site photos document the process of assembly and construction step by step. 30 exemplary international projects illustrate the wide spectrum of design possibilities with straw. From information on standard utility graphics through specifics on schedules and sequencing, this book covers every aspect of the working drawings and schedules that comprise a standard set of construction documents: - Site Plans - Floor Plans - Roof Plans - Reflected Ceiling Plans - Exterior Elevations - Building Sections - Wall Sections - Vertical Transportation Systems - Enlarged Plans and Interior Elements - Schedules Details Step-by-step graphics illustrate the precise sequencing of each drawing, presenting a system that can be used, with some modification, on virtually any type or size of commercial building. An invaluable teaching tool and reference. An exhaustive, business-boosting reference, Construction Operations Manual of Policies and Procedures, Fourth Edition, by Andrew Civitello, Jr., is loaded with procedures and step-by-step details for successfully managing construction operations. You get nearly 500 pages of methods, strategies and tactics, forms and ready-to-copy letters all laid out for you in a concise, easy-to-grasp style. This new edition, now the most timely, complete, and useful guide available for managing construction, packs over 20% more forms, and checklists. It also covers new developments in construction management software, as well as new material devoted to the Design-Build process. Included CD-ROM packs project delivery forms, word-for-word letters, sample letters, and checklists to make the overall construction project management process easier and more efficient. The construction manuals from Edition Detail have set new standards in the field of specialist literature, becoming an indispensable part of any architect's library. The latest volume in this series examines brickwork and the wide range of possibilities it offers. A completely new and revised edition, it documents in detail the technical principles involved in using brickwork for building, it examines the various materials used, their properties, the sizes and forms of bricks, the bonds, and the behaviour of brickwork under stress. The methods of building with brick are also dealt with in detail. In addition, full information is provided on the requirements with respect to heat, damp, sound-proofing and fire protection, and the most recent standards and norms are listed. Finally, a large number of built examples are presented, complete with plans and details, all of which illustrate the

many applications of brickwork in contemporary construction. All plans have been specially produced by the editorial department Detail for this book and for ease of comparison, they have been drawn to the same scale. Pipeline Planning and Construction Field Manual aims to guide engineers and technicians in the processes of planning, designing, and construction of a pipeline system, as well as to provide the necessary tools for cost estimations, specifications, and field maintenance. The text includes understandable pipeline schematics, tables, and DIY checklists. This source is a collaborative work of a team of experts with over 180 years of combined experience throughout the United States and other countries in pipeline planning and construction. Comprised of 21 chapters, the book walks readers through the steps of pipeline construction and management. The comprehensive guide that this source provides enables engineers and technicians to manage routine auditing of technical work output relative to technical input and established expectations and standards, and to assess and estimate the work, including design integrity and product requirements, from its research to completion. Design, piping, civil, mechanical, petroleum, chemical, project production and project reservoir engineers, including novices and students, will find this book invaluable for their engineering practices. Back-of-the envelope calculations Checklists for maintenance operations Checklists for environmental compliance Simulations, modeling tools and equipment design Guide for pump and pumping station placement « Facade Construction Manual » provides a systematic survey of contemporary expertise in the application of new materials and energy-efficient technologies in facade design. It surveys the facade design requirements made by various types of buildings, as well as the most important materials, from natural stone through to synthetics, and documents a diversity of construction forms for a wide range of building types. This construction client's manual is written in the form of a list of activities. It supports owners in the role of client by helping them make choices during the project development process. This increases control over cost, quality and duration at each stage. Activities within each main stage of the project development (preparation stage; procurement; design; preparation for construction; construction itself; handover; implementation) are divided into phases, each requiring separate decision-making. The phase begins with a list of direct previous decisions and continues with a list of executors, the goal of the present phase and a list of activities to be performed. And each phase ends with a list of expected results and a list of activities that these results release for action in the next phase. The sequence of these seven stages can be altered to help building owners manage risk by choosing and combining the timing of these stages. The tasks involved in project preparation,

described in the first chapter are for example, often left by the owner for the designers to solve - or sometimes even the contractors. The decisions relating to the choice of procurement schemes, described in the second chapter, can be made either at the preparation stage of project development, as part of the prioritisation of aims, or at the time of choosing the designer, or at the stage of choosing construction contractors. Manual of Construction Project Management – for owners & clients is for prospective owners who either operate as clients themselves, or who use the services of professional construction management companies. The aim is to help both owners and their construction partners understand what to expect from each other. The manual describes activities at the level of detail required to choose the management task or method to make the decision. It is not bound to regulations of any specific country and a detailed glossary makes it an indispensable worldwide reference. Soccer stadiums, airports, theaters, museums – it falls to very few architects to tackle spectacular building tasks like these. The everyday work of most architects is more often focused on "manageable" projects like the renovation, remodeling, or rebuilding of single- and multi-family houses, schools, and offices. Whatever the nature of the building task, interior construction is always a significant design and qualitative challenge that calls for highly detailed technical expertise. After all, it affects the realm that will be brought to life and utilized by the user when the task is finished, and whose aesthetic and functional serviceability will be put to the test each and every day. The Interior Construction Manual supports planners in their daily work as a practical planning aid and reference work with the relevant standards, guidelines, reference details, and constructional solutions, all illustrated by built example projects. It brings together the crucial facts on all aspects of interior construction and presents the key fundamentals of building physics, fire protection, interior construction systems, and openings. In addition, it offers concrete tips on integrated planning approaches, energy and sustainability issues, materials used in interior construction, hazardous substances, and dealing with building services and light planning. (Book). The Ultimate Bluegrass Mandolin Construction Manual is the most complete step-by-step treatise ever written on building an acoustical string instrument. Siminoff, a renowned author and luthier, applies over four decades of experience to guide beginners to pros through detailed chapters on wood selection, cutting, carving, shaping, assembly, inlays, fretting, binding and assembly of an F-style mandolin. A special highlight is an in-depth chapter on the art of tap tuning. This fully-illustrated manual boasts more than 250 photos, a full-color section on the staining and finishing processes, numerous detailed illustrations, and a bonus set of 20 full-

size blueprints. Spiral bound. Konstruieren ist eine Kompetenz, die Architekturschaffenden die Kontrolle über ihre Entwürfe verschafft. Neue technische Anforderungen wirken auf unsere Bauten ein und rufen nach aktuellem Fachwissen, um daraus neue Architekturen zu formen. Vom Konzept zum Detail führt dieses Handbuch mit klar verständlichen 3D-Isometrien in die Welt zeitgenössischer Konstruktion ein; Fotografien veranschaulichen die Inhalte. Tragwerk, Gebäudehülle und Ausbau werden in drei Hauptkapiteln beleuchtet und zum jeweiligen Auftakt die Konstruktionsprinzipien moderner Bauweisen übersichtlich einander gegenübergestellt. Räumliche Darstellungen im Maßstab 1/10 und 1/20 erlauben die vertiefende Betrachtung anhand ausgewählter gebauter Beispiele. Originally published in 1926 [i.e. 1927] under title: Steel construction; title of 8th ed.: Manual of steel construction.

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