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Autore	Ching Frank <1943->
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Descrizione fisica	1 online resource (482 p.)
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Nota di contenuto	Building Construction Illustrated; CONTENTS; PREFACE; 1 THE BUILDING SITE; 1.02 BUILDING IN CONTEXT; 1.03 SUSTAINABILITY; 1.04 GREEN BUILDING; 1.05 LEED® GREEN BUILDING RATING SYSTEM; 1.06 THE 2030 CHALLENGE; 1.07 SITE ANALYSIS; 1.08 SOILS; 1.09 SOIL MECHANICS; 1.10 TOPOGRAPHY; 1.12 PLANT MATERIALS; 1.13 TREES; 1.14 SOLAR RADIATION; 1.16 PASSIVE SOLAR DESIGN; 1.18 SOLAR SHADING; 1.19 DAYLIGHTING; 1.20 PRECIPITATION; 1.21 SITE DRAINAGE; 1.22 WIND; 1.23 SOUND & VIEWS; 1.24 REGULATORY FACTORS; 1.25 ZONING ORDINANCES; 1.26 SITE ACCESS & CIRCULATION; 1.27 PEDESTRIAN CIRCULATION 1.28 VEHICULAR CIRCULATION1.29 VEHICULAR PARKING; 1.30 SLOPE PROTECTION; 1.31 RETAINING WALLS; 1.34 PAVING; 1.36 THE SITE PLAN; 1.38 SITE DESCRIPTION; 2 THE BUILDING; 2.02 THE BUILDING; 2.03 BUILDING SYSTEMS; 2.05 BUILDING CODES; 2.06 TYPES OF CONSTRUCTION; 2.07 OCCUPANCY CLASSIFICATION; 2.08 LOADS ON BUILDINGS; 2.09 WIND LOADS; 2.10 EARTHQUAKE LOADS; 2.11 STRUCTURAL FORCES; 2.12 STRUCTURAL EQUILIBRIUM; 2.13 COLUMNS; 2.14 BEAMS; 2.15 BEAM SPANS; 2.16 TRUSSES; 2.17 FRAMES & WALLS; 2.18 PLATE STRUCTURES; 2.19 STRUCTURAL UNITS; 2.20 STRUCTURAL SPANS; 2.21 STRUCTURAL PATTERNS 2.22 LATERAL STABILITY2.24 HIGH-RISE STRUCTURES; 2.25 ARCHES &

VAULTS; 2.26 DOMES; 2.27 SHELL STRUCTURES; 2.28 CABLE STRUCTURES; 2.29 MEMBRANE STRUCTURES; 2.30 JOINTS & CONNECTIONS; 3 FOUNDATION SYSTEMS; 3.02 FOUNDATION SYSTEMS; 3.04 TYPES OF FOUNDATION SYSTEMS; 3.06 UNDERPINNING; 3.07 EXCAVATION SUPPORT SYSTEMS; 3.08 SHALLOW FOUNDATIONS; 3.09 SPREAD FOOTINGS; 3.10 FOUNDATION WALLS; 3.16 COLUMN FOOTINGS; 3.17 FOUNDATIONS ON SLOPING GROUND; 3.18 CONCRETE SLABS ON GRADE; 3.22 POLE FOUNDATIONS; 3.24 DEEP FOUNDATIONS; 3.25 PILE FOUNDATIONS; 3.26 CAISSON FOUNDATIONS; 4 FLOOR SYSTEMS
4.02 FLOOR SYSTEMS4.04 CONCRETE BEAMS; 4.05 CONCRETE SLABS; 4.08 PRESTRESSED CONCRETE; 4.10 CONCRETE FORMWORK & SHORING; 4.11 PRECAST CONCRETE FLOOR SYSTEMS; 4.12 PRECAST CONCRETE UNITS; 4.13 PRECAST CONCRETE CONNECTIONS; 4.14 STRUCTURAL STEEL FRAMING; 4.16 STEEL BEAMS; 4.17 STEEL BEAM CONNECTIONS; 4.19 OPEN-WEB STEEL JOISTS; 4.20 OPEN-WEB JOIST FRAMING; 4.22 METAL DECKING; 4.23 LIGHT-GAUGE STEEL JOISTS; 4.24 LIGHT-GAUGE JOIST FRAMING; 4.26 WOOD JOISTS; 4.28 WOOD JOIST FRAMING; 4.32 WOOD SUBFLOORING; 4.33 PREFABRICATED JOISTS & TRUSSES; 4.35 WOOD BEAMS; 4.36 WOOD BEAM SUPPORTS
4.37 WOOD POST-BEAM CONNECTIONS4.38 WOOD PLANK-AND-BEAM FRAMING; 4.40 WOOD DECKING; 5 WALL SYSTEMS; 5.02 WALL SYSTEMS; 5.04 CONCRETE COLUMNS; 5.06 CONCRETE WALLS; 5.07 CONCRETE FORMWORK; 5.09 CONCRETE SURFACING; 5.10 PRECAST CONCRETE WALLS; 5.11 PRECAST CONCRETE WALL PANELS & COLUMNS; 5.12 PRECAST CONCRETE CONNECTIONS; 5.13 TILT-UP CONSTRUCTION; 5.14 MASONRY WALLS; 5.16 UNREINFORCED MASONRY WALLS; 5.18 REINFORCED MASONRY WALLS; 5.19 MASONRY COLUMNS & PILASTERS; 5.20 MASONRY ARCHES; 5.21 MASONRY LINTELS; 5.22 EXPANSION & CONTROL JOINTS; 5.23 MASONRY WALL SECTIONS; 5.26 MASONRY BONDING
5.28 STRUCTURAL CLAY TILE

Sommario/riassunto

"The classic visual guide to the basics of building construction, now with a 3D digital building model for interactive learningFor over three decades, Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This new edition of the revered classic remains as relevant as ever, providing the latest information in Francis D.K. Ching's signature style. Its rich and comprehensive approach clearly presents all of the basic concepts underlying building construction. New to this edition are digital enhancements delivered as an online companion to the print edition and also embedded in e-book editions. Features include a 3D model showing how building components come together in a final project. llustrated throughout with clear and accurate drawings that present the state of the art in construction processes and materials Updated and revised to include the latest knowledge on sustainability, incorporation of building systems, and use of new materials Contains archetypal drawings that offer clear inspiration for designers and drafters Reflects the 2012 International Building Codes and 2012 LEED system This new edition of Building Construction Illustrated remains as relevant as ever, with the most current knowledge presented in a rich and comprehensive manner that does not disappoint"--

2. Record Nr. UNINA9910299609603321

Autore	Ducrotoy Jean-Paul
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Lingua di pubblicazione	Inglese
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Nota di bibliografia	Includes bibliographical references.
Nota di contenuto	Reliability Importance Measures of Components for Stand-alone Hybrid Renewable Energy Microgrid -- Statistical Analyses Of Wind and Solar Energy Resources for the Development of Hybrid Microgrid -- Entering the Bio Based Economy - Verification of Demand on Education in the Field Of Green Economy -- Hybrid Power System Supply for Electric Vehicle -- Temporal Assessment of Wind Energy Resource in “Adrar” (South of Algeria); Calculation and Modeling of Wind Turbine Noise -- Photo-Electro-Thermal Characteristics of Photovoltaic Panels -- MLP/Levenberg-Marquardt for Prediction Solar Radiation: A Case Study Bejaia City -- A Proposal for Intermediate Band Solar Cells with

Optimized Transition Energy in Cr Doped 3C-SiC -- Sand Effect on Photovoltaic Array Efficiency in Algerian Desert -- Solar Irradiation on Lawsonia Inermis Sensitized With Red Blood Cells: Effect on Osmotic Fragility.

Sommario/riassunto

The proceedings of the 2nd International Congress on Energy Efficiency and Energy Related Materials include 73 peer-reviewed technical papers, submitted by leading academic and research institutions from over 20 countries and representing some of the most cutting-edge research available. The 73 papers are grouped into the following sections: - General Issues - Wind Energy - Solar Energy - Nuclear Energy - Biofuels and Bioenergy - Fossil Energy - Hydropower - Energy Storage, Conservation and Efficiency - Environmental Issues - Carbon Capture and Storage - Bio-Assessment and Toxicology - Air Pollution from Mobile and Stationary Sources - Transport of Air Pollutants - Environmentally Friendly Construction and Development - Energy Management Systems - Materials for Sustainable Energy - Materials for Renewable Energy Storage and Conversion - Fuel Cells - Hydrogen Storage - Photovoltaics and Solar Cells - Hydrogen Production and Fuel Generation from Renewables (Catalysis) - Carbon Dioxide Sequestration and Conversion - Energy-Saving Materials - Thermoelectrics - Saving Energy in Buildings - Modeling and Theoretical Aspects in Energy-Related Materials.