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Autore	Ching Francis DK
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Nota di bibliografia	Includes bibliographical references and index.
Nota di contenuto	Cover; Title Page; Copyright Page; Contents; Preface; 1 THE BUILDING SITE; Building in Context; Sustainability; Green Building; BREEAM; BREEAM; LEED Green Building Rating System; LEED; Carbon Reduction Strategies; Climate Change & Global Warming; The Passive House Standard; Passive House; Considerations; Site Analysis; Soils; Soil Mechanics; Topography; Plant Materials; Trees; Providing Shade; Serving as Windbreak; Defining Space; Directing or Screening Views; Attenuating Sound; Improving Air Quality; Stabilising Soil; Solar Radiation; Cool Regions; Temperate Regions; Hot-Arid Regions Hot-Humid RegionsPassive Solar Design; Direct Gain; Indirect Gain; Sunspace; Roof Pond; Isolated Gain; Solar Shading; Daylighting; Precipitation; Site Drainage; Wind; Sound & Views; Site Access & Circulation; Pedestrian Circulation; Pedestrian Walks; Exterior Stairs;

Bike Paths; Accessibility Guidelines; Kerb Ramps; Vehicular Circulation; Private Roadways; Residential Drives and Garages; Vehicular Parking; Vehicle Dimensions; Parking Spaces; Car Parks; Garage Ramps; Paving; Paving Patterns; Drawing Conventions; The Site Plan; 2 THE BUILDING; The Building; Building Systems; Structural System
Building EnvelopeMechanical Systems; Performance Requirements; Aesthetic Qualities; Regulatory Constraints; Economic Considerations; Environmental Impact; Construction Practices; Building Regulations; Building Regulations; UK Approved Documents; European Building Regulations; Regulation Outside Europe; Other Important Regulations/Guidelines; Fire Regulations; Example of Purpose Group Classifications; Loads on Buildings; Static Loads; Dynamic Loads; Wind Loads; Structural Forces; Structural Equilibrium; Columns; Beams; Beam Spans; Trusses; Frames & Walls; Plate Structures; Structural Units Structural SpansRepresentative Span Ranges (metres); Structural Patterns; Lateral Stability; Horizontal diaphragm; Rigid frame; Shear wall; Braced frame; High-Rise Structures; Arches & Vaults; Domes; Shell Structures; Cable Structures; Membrane Structures; Joints & Connections; 3 FOUNDATION SYSTEMS; Foundation Systems; Types of Foundation Systems; Shallow Foundations; Deep Foundations; Underpinning; Excavation Support Systems; Shallow Foundations; Basement Walls; Rising Walls; Retaining Walls; Connection to Timber Frame; Timber Beams; Beam and Block Floor; In-Situ Concrete Retaining Walls
Concrete Masonry Retaining WallsPad Foundations; Reinforced-Concrete Column; Timber Post; Steel Column; Foundations on Sloping Ground; Concrete Slabs on Grade; Isolation Joints; Construction Joints; Control Joints; Masonry Wall; Stud Wall; Step in Slab Level; Deep Foundations; Pile Foundations - Driven; Pile Foundations - Bored; Foundation Choice; 4 FLOOR SYSTEMS; Floor Systems; Concrete; Steel; Timber; Concrete Beams; Concrete Slabs; One-Way Slab; One-Way Ribbed Slab; Two-Way Slab and Beam; Two-Way Waffle Slab; Two-Way Flat Plate; Two-Way Flat Slab; Prestressed Concrete; Pre-tensioning Post-tensioning

Sommario/riassunto

The first European edition of Francis DK Ching's classic visual guide to the basics of building construction. For nearly four decades, the US publication Building Construction Illustrated has offered an outstanding introduction to the principles of building construction. This new European edition focuses on the construction methods most commonly used in Europe, referring largely to UK Building Regulations overlaid with British and European, while applying Francis DK Ching's clear graphic signature style. It provides a coherent and essential primer, presenting all of the basic concepts

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Autore	Mur-Duenas Pilar
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Livello bibliografico	Monografia

Sommario/riassunto

There is an increasing need for scholars and scientists to not only conduct research that has a significant impact on society but also to communicate that research widely. Such research outreach also contributes to engaging wide, diverse audiences. As such, the discursive practices have become more and more complex, multimodal, and multimedia-based for scholars and scientists. Scientific communication is currently shared to a great extent with peers in technology-mediated contexts, which allows formal scientific publications to be opened to public viewing. Alongside this so-called "primary output" (Puschmann 2015), new ways, modes, and discourses are being used to bring science closer to a lay audience and promote citizen participation. The affordances of existing and emergent platforms are fostering a change in audience roles, and with it, the erosion of boundaries between scientific communities and the general public, entailing the dissemination of scientific information and knowledge beyond the former (Trench 2008). We are thus witnessing the development of discursive practices which may be referred to as instances of "parascientific communication". These practices transcend previously well-delimited communities and spheres of communication. Parascientific genres are evolving based on authoritative or expert knowledge (communicated through conventional, sanctioned scientific genres) but not subjected to the filters of internal, formal science communication (Kelly and Miller 2016). This Special Issue seeks to gain

a better understanding of the purposes and specific features of these new scientific communication practices.