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Nota di contenuto	Exterior Building Enclosures: Design Process and Composition for Innovative Facades; Copyright; Contents; Acknowledgments; Chapter 1 Basics; Understanding the Basics; Process; Definition; Functions; Structural; Weathertightness; Energy Efficiency; Accommodate System Movement and Structure Movement; Elements and Forces on the Exterior Enclosure; Force Type: Wind; Element and Force Type: Precipitation/Water; Element Type: Air, Force Type: Infiltration and Exfiltration; Force Type: Temperature; Element and Force Type: Sunlight; Force Type: Seismic; Force Type: Blast Force Type: Water Vapor/Condensation Force Type: Noise/Acoustics; Design Principles; Barrier; Mass; Rain Screen; Pressure-Equalized Rain Screen; Basic Types; Standard Enclosure System; Customized Standard; Custom Enclosure System; Interfaces of Enclosure Types; Summary; Chapter 2 Participants; Owner; Definition; Groups and Types; Role; Responsibilities; Design Process and Expectations; Architect; Definition; Groups and Types; Role; Responsibilities; Design Process and Expectations; Engineers; Structural Engineers; Building Services Engineers; The Role of Building Services Engineers

ResponsibilitiesResponsibilities in Enclosure Design; Specialty Engineers and Consultants; Design Team Resources: Material Suppliers, System Fabricators, and Specialty Fabricators; Material Suppliers; System Fabricators; Specialty Fabricators; Builders; General Contractor; Exterior Enclosure Contractor(s); Summary; Chapter 3 Design Process; Step 1: Define and Establish Enclosure Goals; Step 2: Enclosure Concepts; Step 3: Research, Collection, and Analysis; Research; Collection; Analysis; Step 4: Schematic Design/Design Development: Enclosure System Development; Schematic Design Schematic Design: Composition, Extents, Profiles, and FinishesSchematic Design: Considerations and Collaboration; Schematic Design: Delivery Product; Design Development; Design Development: System Selection; Design Development: Weather Protection; Design Development: Enclosure Structure; Design Development: Material Research and Selection; Design Development: Input and Critique; Design Development: Delivery Product; Step 5: Construction Documents; Goal of Construction Documents; Construction Document Organization; Project Delivery Methods; Complexity of Enclosure: Standard to Custom Team ExpectationsEnclosure System Interfaces; Architectural Checking and Coordination; Drawing and Specification Coordination; Input/Review; Construction Document: Delivery Product; Summary; Chapter 4 Construction; Step 6: Construction Process; Design-Bid-Build; Design-Assist; Negotiated; Design-Build; Bidding or Tender: The Step In-Between; In-Between; System Validation; Enlarge the Team; Paper Stage of Construction; Enclosures Detailedprimarily by the Architect; Enclosures Requiring Shop Drawings; Samples; ""Bricks and Mortar"" Stage; What is Done to Date in Construction Layout and Embedded Enclosure Components

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#### Sommario/riassunto

"Focused on the design process for architects and related professionals, this is a guide to the design and execution of sophisticated exterior building enclosures for a number of commercial building types and in a variety of building materials. Written by the technical director of the San Francisco office of the esteemed architecture firm Skidmore, Owings and Merrill (SOM), this book has a distinct focus on the design process by delineating the participants (architects, engineers, consultants) and their roles and responsibilities through collaboration, and tracking the design process through construction"--

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