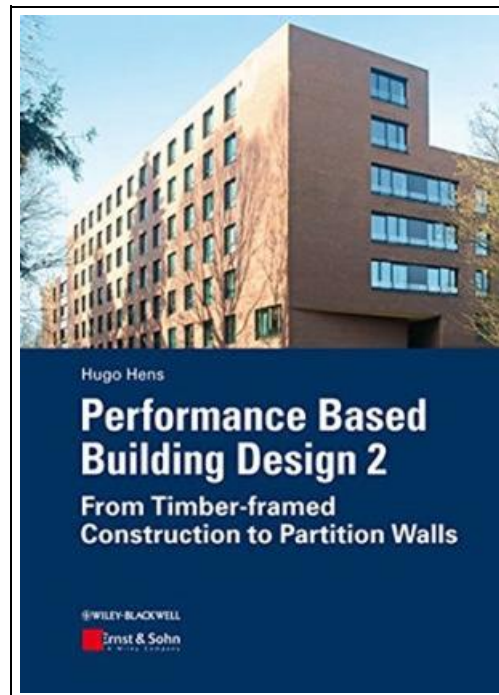


Performance Based Building Design 2



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Reviews

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(Irving Roob)

PERFORMANCE BASED BUILDING DESIGN 2



Ernst W. & Sohn Verlag Nov 2012, 2012. Taschenbuch. Condition: Neu. Neuware - So wenig wie die Bauphysik insgesamt stand die Energieeffizienz vor der Energiekrise der 1970er Jahre bei der Planung von Gebäuden auf der Tagesordnung. Mit der wachsenden Notwendigkeit der Energieeinsparung stieg aber das Interesse an der ganzheitlichen Gebäudeplanung. Das zweibändige Werk stellt die ganzheitliche Gebäudebetrachtung und seine 'Performance', getragen von der Anwendung bauphysikalischer Zusammenhänge, in der Planung und Ausführung dar. Der Begriff 'Gebäudeperformance' meint hier alle Gebäude bezogenen physikalischen Eigenschaften, die im Entwurfsprozess planbar und während des Bauprozesses und im Betrieb kontrollierbar sind. Der Begriff 'planbar' erfordert Berechnungsmodelle und -verfahren für die Bemessung und Auslegung, während 'kontrollierbar' den Einsatz von Messtechnik und Vergleichsanalysen erfordert. In Fortführung des ersten Bandes behandelt dieser zweite Band Leichtbauwände in Holzbauweise und Sandwichelementen, Dachkonstruktionen, Fassadentypen bis hin zum Innenausbau und endet mit der globalen Risikoanalyse. Dabei folgen die meisten Kapitel der Systematik: Überblick, allgemeine Anforderungen, Planung, Ausführung. Das Werk bietet sowohl für Studenten der Architektur und des Bauingenieurwesens umfassendes Rüstzeug für die Bewältigung von Hochbaukonstruktionen, als auch den in der Praxis tätigen Bauingenieuren ein Nachschlagewerk zur Auffrischung des Wissens. Das Buch setzt gründliche Kenntnisse der Bauphysik sowie Grundkenntnisse in Tragwerksplanung, Baustoffkunde und Baukonstruktionen voraus. Just like building physics, performance based building design was hardly an issue before the energy crises of the 1970ies. With the need to upgrade energy efficiency, the interest in overall building performance grew. This work published in two volumes, applies the performance rationale, advanced in applied building physics, to the design and construction of buildings. In continuation of Vol. 1 this volume discusses light-weight construction with wooden and metal elements, roofing systems, facades, and ends with finishes and the overall risk analysis. Most chapters build on a same scheme: overview, overall performance evaluation, design and construction. This fourth book,...



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