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Sinopsis

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This second volume in the Technologies of Architecture series - the only series of books tuned to the architectural technology syllabus - explores the environmental influences on building design.

Looking particularly at sustainable building, a holistic view is taken, so that the influence of any one set of choices on other areas - such as the trade-off of daylighting against thermal insulation, or the balance needed between heating and ventilation - are not overlooked. The authors discuss available technologies for establishing a suitable microclimate within buildings, for managing the transmission of sound and for minimizing the exploitation of scarce energy and of other resources.

Using the perspective of a designer who needs a sound scientific basis for arriving at the optimum outcome, this valuably informative volume is ideal for architectural technology students, as well as first and second year architecture students.

Contents.

Introduction Part 1: Buildings and Climate Design Part 2: Buildings and Low Energy Design Part 3: Energy Systems and Services in Buildings Part 4: Buildings and Lighting Design Part 5: Acoustic Design and the Aural Environment Part 6: Sustainable Building Design Part 7: Case Studies