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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.

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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