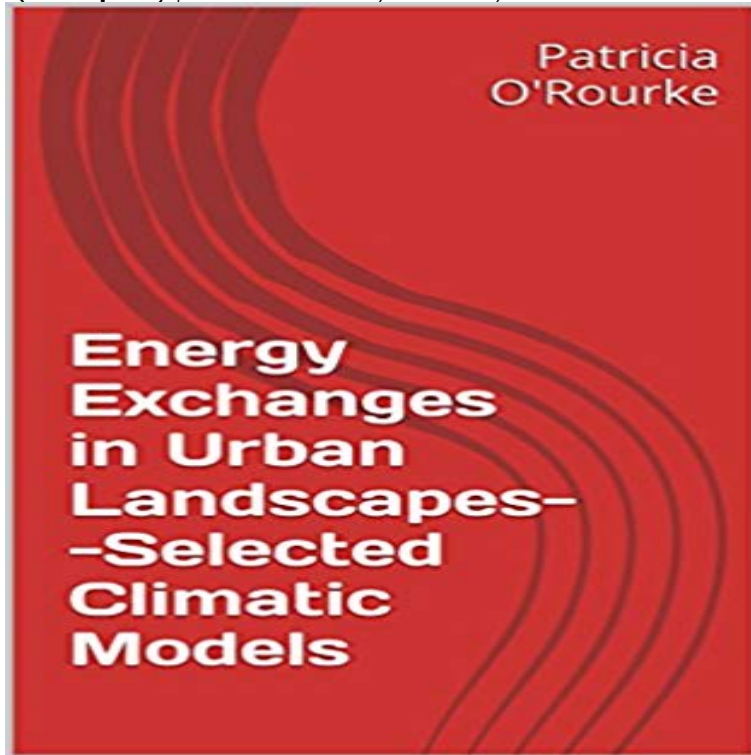


## Energy Exchanges in Urban Landscapes--Selected Climatic Models (Terjung-ORourke, et al.,Lecture Series Book 3)



This monograph provides the user with the needed instructions for running any one or all of a series of selected models which simulates urban climates--URBAN1, URBAN2, and URBAN3. The program outputs provide simulations which range in scale from individual building facets to a block-by-block analysis of the energy budgets and surface temperatures of street canyons and building systems. All models can be manipulated as to building or block heights, street widths and orientations, fenestration, materials, internal heating and cooling rates, etc. They also can be used for different climates, latitudes, and seasons. In essence, the models have the potential for examining the results of urban planning strategies (e.g., heating-cooling energy requirements) for entire cities or parts thereof. For the majority of users, those who would want to experiment and undertake explorations with URBAN models without having to deal with the physics, mathematics, and programming aspects of fairly complex models, this monograph serves as a self-teaching and problem-solving device. Study and exploration will proceed most profitable if the monograph is used together with the cited literature and the authors *An Outline of Boundary-Layer Climatology: Methods and Analyses* (1978). The programs have been kept very simple; elegance in programming have been sacrificed for clarity in understanding. Each program is accompanied by many explanations. The computer programs should be viewed just as tools to conduct sensitivity analyses and simulations of climate and urban landscapes--only the input (described in considerable detail and output requirements need to be understood. The user who wants to go beyond such treatment, can gain better understanding of the environmental physics used by referring to the cited literature and a current FORTRAN instruction manual in conjunction with this

work. General Considerations. Throughout history humans often have modified their climatic environment. Urbanization has brought about the most radical changes, and modern cities have been developed with little or no regard for climatic modifications created. The city has an infinite number of microclimates that are intimately linked to the composition of its surfaces and the relationships among its structures. This urban-atmospheric system is interdependent; climate cannot be treated independently of the city. Microclimates created or drastically altered by the shade effect of tall buildings are one simple example. Cities worldwide have become increasingly similar. Common building styles and materials are rapidly replacing traditional design and construction patterns which were adapted to local climates. An understanding of the microclimates created by buildings should aid in the planning of new urban sites or the redevelopment of old ones. Layout and design can often turn microclimatic liabilities into assets. Thus, the collaboration of climatologists with architects and planners seems highly desirable. The information gap between climatologists and developers has not been bridged by traditional approaches in climatology. Air temperature and humidity data taken at the standard screen height of weather shelters fail to measure the more significant phenomena of energy, mass, and momentum exchanges at the interface. A predictive methodology is needed. The energy budget approach is capable of untangling the complex web of urban microclimates. Such an approach would involve the interaction of human energy regimes inside and outside buildings. The physiological effects of persons would be analyzed and such comfort reactions would lead to heating-cooling energy requirements for entire cities. Weather types and their effects on the city-human budget of energy could be used to better prepare to face energy requirements to avoid brown-outs or black-outs. 190 pages plus extra pages for figures and graphs.

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