



HEALING  
ARCHITECTURE

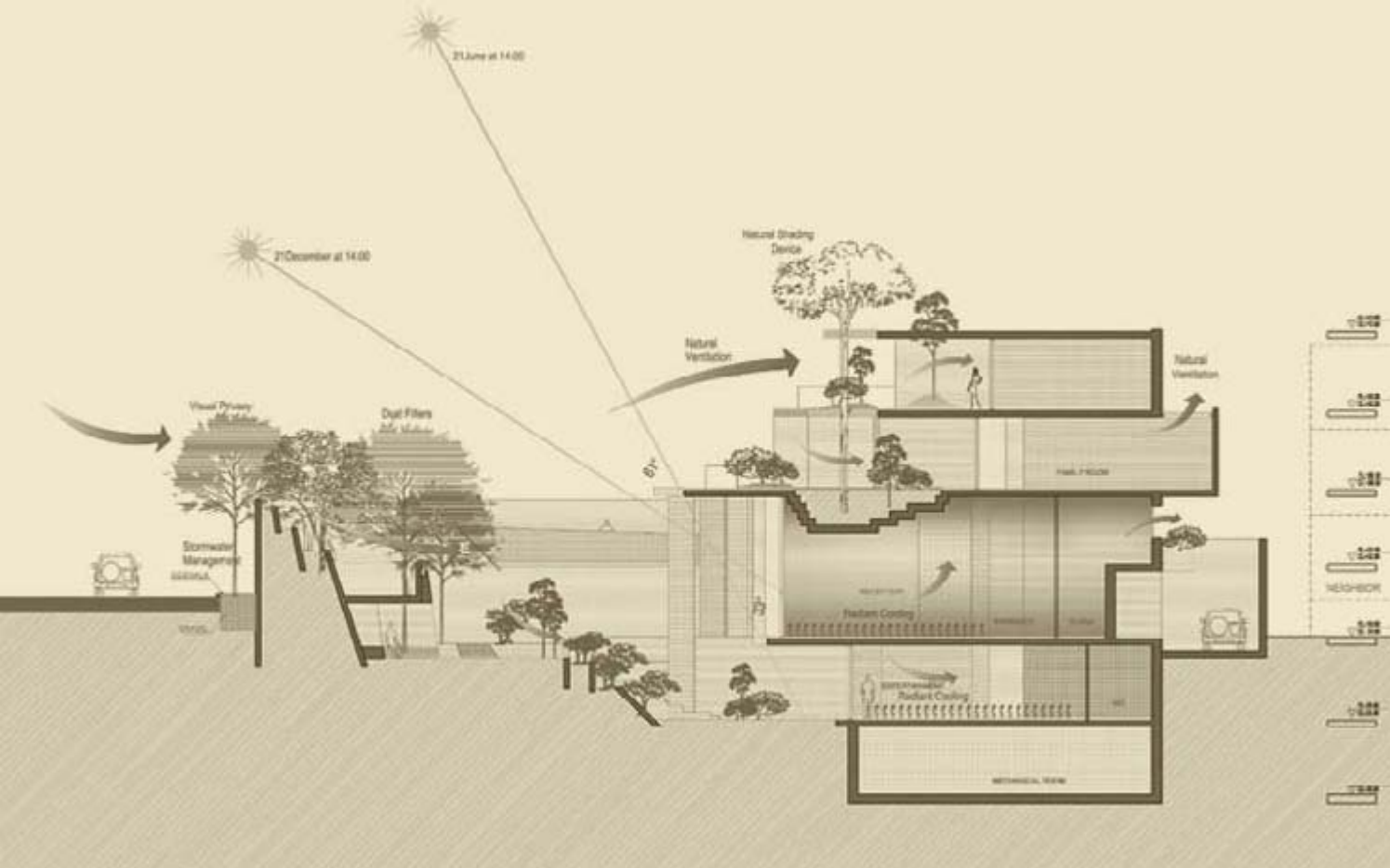
the power of environmental medicine

# THE 6 PILLARS OF HEALING ARCHITECTURE

## 1. Bioclimatic Design

by Lydia Yiannoulopoulou, 2017

Through this synthetic process we deliver specific information to improve your space.



Buildings that are healthy for the environment are healthy for people. Bioclimatic design of a building is the approach of maximizing the utilization of natural environmental phenomena, aiming at user optimum thermal and visual comfort, while reducing the energy demand.

Passive design lies in the heart of a bioclimatic building. The basic principle which constitutes the inner identity of bioclimatics, as the term itself implies, is the response of architecture to life and the climate. The climatic conditions depend, apart from air temperature, on humidity, rainfall, latitude and solar geometry, overcast sky, prevailing wind speed and sky illuminance.

Since prehistoric times, the aforementioned factors constituted not just incorporated principles of building design, but the basis and source of inspiration for the form, shape, volume and orientation design, even the style of a building.

Passive design, the first and most basic step in bioclimatic and sustainable architecture, is integrated in a building's conceptual design, and concerns: the orientation of a building in two and three dimensions, the building envelope and the corresponding building materials' thermal properties, the opening to floor ratio; these represent the basic elements for the development of natural cooling, heating, ventilation and lighting strategies.

Bioclimatic Architecture, or more simply the nature-driven Architecture, serves in the incorporation of the building in the environment and the minimization of the energy demand in such a degree, that it can lead in energy autonomy, a very important element nowadays.