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## Impact Building Morphology Energy Consumption Case

**effect of building morphology on energy and structural ...** - effect of building morphology on energy and structural performance of high-rise office buildings may 2012 mohamed ali milad krem, b., nasser university m., al-mergeb university ph.d., university of massachusetts amherst directed by: professor sanjay rwade and professor simi t. hoque **statistical analysis of impact of building morphology and ...** - the morphology of a building has a huge impact on its energy use, especially in office buildings due to their huge glazing areas. designing with proper regard of climate issues leads to enhanced energy performance. this paper provides an analysis of the impact of building shapes and orientations on the energy performance across **impact of urban morphology on infiltration-induced ...** - energies article impact of urban morphology on infiltration-induced building energy consumption andrius jurelionis 1,\* and demetri g. bouris 2 1 faculty of civil engineering and architecture, kaunas university of technology, studentu str. 48, 51367 kaunas, lithuania 2 school of mechanical engineering, national technical university of athens, 15780 zografou, greece; **structural configuration and building energy performance** - structural configuration and building energy performance ... tative study of the effect of building morphology on energy performance in each of the four climate zones. the energy analysis is performed ... the introduction of novel materials to the building envelope. how-ever, the impact and influence of the structural system on building **impact of morphological characteristics of green roofs on ...** - envi-met model. section4analyzes and discusses the impact of greening layout, coverage ratio, vegetation height, and building height on the cooling performance of green roofs, and section5 concludes this paper. overall, this study adds the knowledge of how building morphology and green roof structure influence microclimate simultaneously. **courtyard building's morphology impact on thermal and ...** - impact on it adjacent spaces under clear sky conditions. a special attention based on courtyard building's architecture of different morphologies and periods such as: traditional, colonial, post -colonial and contemporary samples. the selection of relevant samples **simulating the impact of urban morphology on energy demand ...** - shang chuan, the impact of urban morphology on energy demand49, th isocarp congress 2013 5 the simulation results of one prototype have been compared with four different experimental models based on consideration of the following four parameters: building form, average building height, orientation of buildingand community s pattern (figure 3). **study on the impact of the building form on the energy ...** - building relative compactness building morphology is an important factor that could influence an increase/decrease of energy required to heat or cool the occupied space. the shape of a building has also an important impact on the construction costs but most important on the energy consumption and implicitly on the costs. **space use patterns and building morphology in yoruba and benin** - c adeokun, e ekhaese, f isaacs -sodeye : space use patterns and building morphology in yoruba and benin 023: 2 1. introduction the three studies of traditional and contemporary domestic units samples presented here are from benin city; the historic capital of ancient benin empire, and from ile-ife, the mythological **a study of shanghai residential morphology and ...** - a study of shanghai residential morphology and microclimate at a neighborhood scale based on energy consumption . yiqun pan1, cong yu2, jiachen mao1, weiding long1, weizhen chen1. 1tongji university, shanghai, china . 2the university of hong kong, hong kong, china . abstract this study is to assess the impact of residential **3. high-rise urban form and climate- - council on tall ...** - over the main building entrance, to prevent downward air-flow from reaching the primary pedestrian area [9]. tall building clusters in hot climates, on the contrary, should encourage wind channeling and turbulence. building foot-figure 1. the impact on tall building form and surface-volume ratio [5]. **simulating the effect of urban morphology on indoor ...** - pisello, taylor, and cotana building energy performance with respect to strategic urban morphology parameters has also considered the impact on lighting analyses, such as stromann-andersen and sattrup (2011). **mitigating urban heat island effect by urban design: forms ...** - of urban climatology into urban design guidelines. therefore, for mitigating urban heat island effect by urban design, our primary work on the research of urban forms is to systematically collect and comb all urban form factors that may impact building energy consumption through microclimate. **the influence of vegetation and building morphology on ...** - the influence of vegetation and building morphology on shadow patterns and mean radiant temperatures ... impact of actual spatial variations in urban geometry can be assessed. to do this, a high ... **impact of building geometry on fire spread rate** - design form to mitigate fire spread. the experiment aimed at ascertaining zero, minor or major impact of building morphology/fire interaction without consideration of the fire domain materials. this approach of fire spread mitigation could have a positive impact on the whole life cycle of a building which contributes to construction management.

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