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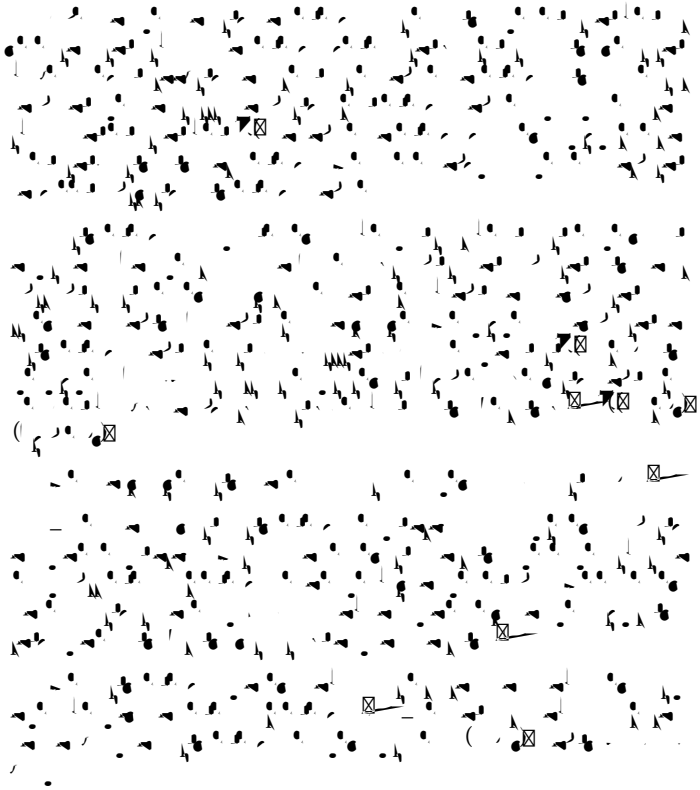
Architectural Engineering Technology

Keywords:

Introduction



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Discussion

Wind velocity distribution

Figure 3: Mean monthly wind velocity for Safawi.

Figure 4: Mean monthly wind velocity for Azraq south.

Figure 5: Repeated hours for wind velocities of Daba'a site.

Figure 6: Repeated hours for wind velocities of Safawi site.

Figure 7: Repeated hours for wind velocities of Azraq south site.

Weibull prediction model

$$P_v = \frac{k}{c}\left(\frac{V}{c}\right)^{k-1}\exp\left[-\left(\frac{V}{c}\right)^{k}\right]$$

$$c = \frac{\overline{V}}{\Gamma[\ldots/k]}$$

$$V_r = \left\{ \left[Lam\left(\frac{3\alpha}{k}\right) k - 3 \right] \Big/ k \right\}^{\frac{1}{k}} C \qquad (\quad)$$

Lam

$$\alpha = \exp\left\{ \left[-\left(\frac{V_o}{c}\right)^k k - 3 \right] \Big/ k \right\} \qquad (\quad)$$

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