

$$f(x, y) = a_1x + a_2x^2 + b_1y + b_2y^2 + c_1 + c_2xy + \\ + d_1 \cos \left[ \left( n_x k_{xm} \right) x \right] + d_2 \sin \left[ \left( m_x k_{xm} \right) x \right] + \\ + e_1 \cos \left[ \left( n_y k_{ym} \right) y \right] + e_2 \sin \left[ \left( m_y k_{ym} \right) y \right]$$

where:

$$k_{xm} = \frac{2\pi}{x_{\max}}, \quad k_{ym} = \frac{2\pi}{y_{\max}}$$

are the mesh wave numbers in the x-

and y-directions, respectively,  
 $x_{\max} = XL(NKX+1)$ ,  $y_{\max} = YL(NKY+1)$  are the maximum x  
and y mesh coordinates, respectively,

$n_x$ ,  $m_x$ ,  $n_y$  and  $m_y$  can be used to generate  $k_{xm}$  and  $k_{ym}$   
harmonics (defined as real numbers).