



Figure 2.3, The SVD Interpolation Scheme: a grid is turned into two finite sets of functions, whose outer-products form functions of two variables. “Rows” (tracks running left to right) of the interpolating function are gotten by taking sums of the interpolated rows of V ; “columns” by taking sums of interpolated columns of Q .

(If the vector constituents of Q_1 and Q_2 had been merely estimated, then one would have estimated, rather than interpolated, X .)

In order to get an estimate of a row off of “the beaten tracks”, at x_0 say, use the function

$$X(x_0, y) = Q_1(x_0) \wedge Q_2(y)^T$$

sketched in Figure (2.3). The entries of Q_1 at x_0 are computed, then one treats