

of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 Y (1,1) of - partial derivative of the first force (moment)
 of according to the first displacement (is calculated
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of taking into account the fact that
 of of $dV_1/dX_1 = 0$, of $dA_1/OF DX_1 = 0$);

...

of
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 Y (N, 1) of - partial derivative of the first force (moment)
 of over N - mu to displacement;
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 Y (N+1,1) of - partial derivative of the second force (moment)
 of on the first displacement;
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 of

...

of
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 Y (N * (J -1) +I, 1) - particular derived J - 1 force on the I - mu
 of to displacement;
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 of

...

of
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 Y (N * (J -1) +I, 2) - particular derived J - 1 force on the I - 1
 of of speed (bearing in mind, that $dX_i/of dV_i=0$ and
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of of $dA_i/of dV_i = 0$)
 of

...

of
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of
 Y (N * (J -1) +I, e) - particular derived J - 1 force on the I - mu
 of to acceleration (here also $dX_i/of dA_i=0$,
 of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of - of
 of - of of $dX_i/of dA_i=0$)

Fig. 3.2. Structure of the jacobian of the model of element.