

Conversion formulae for rotation and translation of body axes

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CONVERSION FORMULAE FOR ROTATION AND TRANSLATION OF BODY AXES

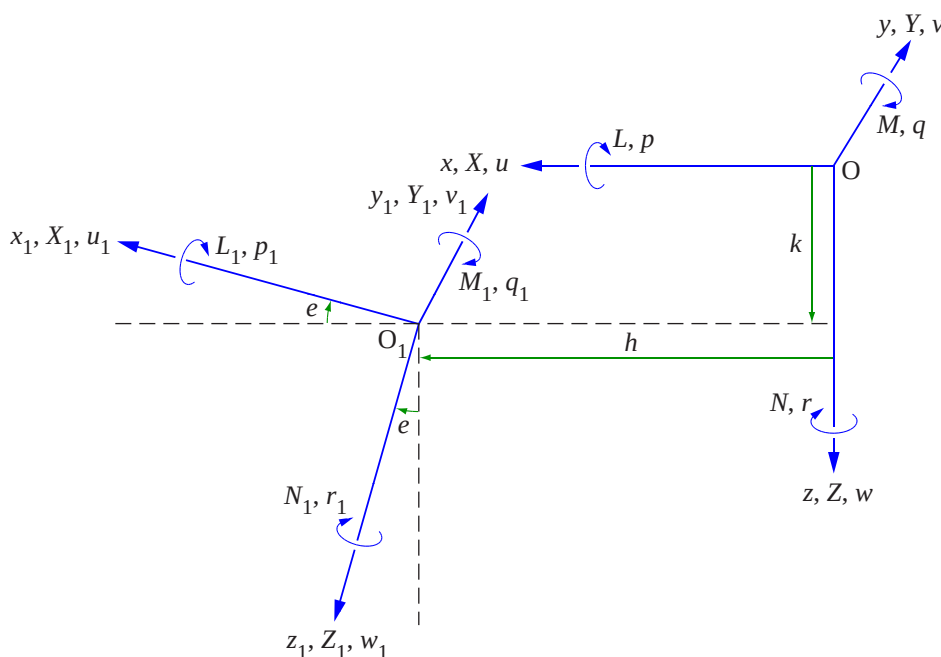
1. NOTATION

e	angular displacement of $O_1x_1y_1z_1$ axis system referred to $Oxyz$ axis system (see Sketch 1.1)
h, k	x - and z -axis co-ordinates of origin of $O_1x_1y_1z_1$ axis system referred to $Oxyz$ axis system (see Sketch 1.1)
h_1	$h \cos e - k \sin e$ (see Table 4.2)
k_1	$k \cos e + h \sin e$ (see Table 4.2)
$Oxyz$	body axis system
$O_1x_1y_1z_1$	body axis system obtained by translation and rotation of $Oxyz$ system in xz -plane
x_G, z_G	x - and z -axis co-ordinates of centre of gravity referred to $Oxyz$ axis system

For other notation see Item No. 67002^[1].

Subscript

1	relates to quantities associated with $O_1x_1y_1z_1$ axis system
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Sketch 1.1 Axis systems in xz -plane

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