Erratum to: Multiple sweeping using the Denavit–Hartenberg representation method

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Please note that the reference to the Swept Volume Community web page on p. 567 should read: http://www.icaen.uiowa.edu/~amelek/sweep/sweptV.htm. Also Fig. 7 on p. 572 was incorrectly printed and should have appeared as follows:

Given a number of Sweep operations

1. Embed the \( z_i \) axis along the \( i \)th sweep axis
2. Embed the \( x_i \) axis normal to the \( z_i \) and \( y = z \times x \)
3. Define the sweep variables \( q_i \) (use reverse order for designation)

Fill-in the DH-Table

Form the Homogeneous Transformation Matrices

\[
{T_i} = \begin{bmatrix}
\cos\theta_i & -\cos\alpha_i \sin\theta_i & \sin\alpha_i \sin\theta_i & a_i \cos\theta_i \\
\sin\theta_i & \cos\alpha_i \cos\theta_i & -\sin\alpha_i \cos\theta_i & a_i \sin\theta_i \\
0 & \sin\alpha_i & \cos\alpha_i & d_i \\
0 & 0 & 0 & 1
\end{bmatrix}
\]

\[
{T_1}{T_2}{T_3} = \prod_{i=1}^{n-1} {T_i}
\]

Compute the Jacobian

Apply rank-deficiency conditions (compute \( p_i \))

Plot \( \xi(u) = \xi(p, u) \)

Fig. 7. Algorithm for creating and representing a solid model using the DH-method.