
Subject: Quaternions to Euler Angles

Posted by [GrahamWilsonCA](#) on Thu, 13 May 2004 05:09:31 GMT

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Does anyone know how to convert a quaternion attitude into a roll, pitch, yaw (in this order) and the yaw, pitch, roll (in this order) for a 'NASA Standard Aircraft'?

<http://www.euclideanspace.com/maths/geometry/rotations/euler/index.htm>

I was trying to use Rick's quaternion code which pitch about x, yaw about y, and roll about z but x and z are swapped. My naive was to simply swap the pitch and roll on input/output but I cannot seem to reproduce the given tables:

<http://www.euclideanspace.com/maths/algebra/realNormedAlgebra/quaternions/transforms/index.htm#sample>

<http://www.euclideanspace.com/maths/algebra/matrix/transformations/index.htm#sample>

<http://www.euclideanspace.com/maths/geometry/rotations/euler/index.htm#sample>

Given that it is now very, very late and I've wasted a good few hours trying to figure this out, I think it is time to call upon the IDL experts...

Thanks,
Graham
