

August 2015

# Errata for Tensor of Moment of Inertia (52) manuscript

Carl W. David

*University of Connecticut*, [Carl.David@uconn.edu](mailto:Carl.David@uconn.edu)

Follow this and additional works at: [https://opencommons.uconn.edu/chem\\_educ](https://opencommons.uconn.edu/chem_educ)

 Part of the [Physical Chemistry Commons](#)

---

## Recommended Citation

David, Carl W., "Errata for Tensor of Moment of Inertia (52) manuscript" (2015). *Chemistry Education Materials*. 90.  
[https://opencommons.uconn.edu/chem\\_educ/90](https://opencommons.uconn.edu/chem_educ/90)

# The Tensor of Moment of Inertia and Related Topics using Maple

Carl W. David  
Carl.David@att.net  
Department of Chemistry  
University of Connecticut  
Storrs, Connecticut 06269-3060

I received the following note in 2011:

"I converted the Maple version of [http://digitalcommons.uconn.edu/chem\\_educ/52/](http://digitalcommons.uconn.edu/chem_educ/52/) to Mathematica. I am only wondering if your handling of the center of mass adjustment is correct? Using your data (angle, bondlength and masses) I arrive at a center of mass at:

CoM: {0.0656597, 0., 0.}

instead of the value of 0.0442 you subtract.

Further, you only subtract it from the hydrogen coordinates, I think it should also be subtracted from the oxygen coordinates? I would be very grateful if you could clarify this."

--

Regards,  
Paul van Maaren

Of course, the manuscript is in error as Dr. van Maaren correctly notes, and readers should be aware of these errors.

Mea culpa.

Carl David  
Prof. Emeritus of Chemistry