## Minor Corrections to Modeling and Analysis of Chemical Kinetics for Hypersonic Flows in Air

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This document contains minor corrections to Ross S. Chaudhry's Ph.D thesis. The latest version of this document may be found at https://github.com/ross-chaudhry/phd-thesis-minor-corrections/blob/master/main.pdf, or by contacting the author at chaudhry.ross@gmail.com. Once the thesis itself becomes available online, it will be linked here also.

1. The estimated uncertainty for the conditional PDF,  $\delta f_e$ , shown in Equation (2.38) on page 38, should use P(e) instead of P( $\bar{c}$ ). The corrected equation is,

$$\delta f_{e}\left(\overline{c}\right) = f_{e}\left(\overline{c}\right) \sqrt{\left(\frac{\delta P\left(e \cap \overline{c}\right)}{P\left(e \cap \overline{c}\right)}\right)^{2} + \left(\frac{\delta P\left(e\right)}{P\left(e\right)}\right)^{2}}$$

- 2. Reference [129] in the thesis, cited on page 95, does not include the journal number, volume, or pages. Reference [90] in the thesis is the same citation and it includes the missing information. Thus, Ref. [129] on page 158 should be replaced by Ref. [90], and bibliography entry [129] on page 158 should be removed.
- 3. The last two rows of data in Table 3.3, on page 113, should be labeled as collision partner  $M = O_2$  instead of  $N_2$ . Note that errors in the numbers of most tables are unlikely, because the raw data are mostly autogenerated from the QCT database itself.