

Appendix A

Mathematical Appendix

This appendix is a reference for various mathematical definitions, relations, and theorems.

A.1 Notational Conventions for Mathematical Symbols

Typefaces:

Category	Typeface	Example
scalar	lower case, normal weight, italic	s
vector	lower case, normal weight, italic, with arrow	\vec{s}
vector coordinate representation	lower case, boldface, with arrow	$\vec{\mathbf{s}}$
vector coordinate representation component	lower case, roman, subscript	s_i
unit vector	normal weight, italic, with hat	\hat{s}
tensor	upper case, math calligraphic	\mathcal{A}
tensor coordinate representation or matrix	upper case, boldface	\mathbf{A}
tensor coordinate representation component	upper case, roman, with subscripts	$A_{i_1 \cdots i_n}$

We will violate the above convention in some special cases where using the standard notation is more important; *e.g.*, total angular momentum will be referred to as \mathcal{L} , position and momentum of center of mass as \mathbf{R} and \mathbf{P} .

The following special symbols are defined:

δ_{ij}	Kronecker delta = 1 when $i = j$ = 0 otherwise
ϵ_{ijk}	Levi-Civita density or tensor = 1 when i, j, k are an even permutation of 1, 2, 3 = -1 when odd permutation = 0 otherwise (two or more of i, j, k are equal)

When written as matrices, we will write the Kronecker delta as the identity matrix, $\mathbf{1}$, and the Levi-Civita symbol as $\underline{\epsilon}$ (the underline implies two of the indices, the vector implies the third).

Mathematical Ideas With Appendices

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