

MathML EPUB QC Report

Review date: 10 October 2026

Sample: mathml-epub-sample.epub

Four-chapter original demonstration for vendor capability evaluation. The file digest below identifies the exact EPUB checked.

Official validation

EPUBCheck 5.4.0 completed with **0 fatal errors, 0 errors, 0 warnings and 0 informational messages**. The raw output is on page 2 and supplied as a separate text file.

Check	Verified result
ZIP and XML	No corrupt entries; mimetype first and uncompressed; 10 XML-family documents parse
References and IDs	43 local references; 0 missing targets; 0 duplicate IDs
Package and chapters	7 spine resources resolve; chapters 1, 2, 3, 4 in order
Language and headings	Document titles and language declarations present; no skipped heading levels
Contact and alternatives	5 live email links; meaningful images have non-empty alt text
MathML structure	9 native equations in 3 XHTML resources; mathml properties match; alternatives and equation inventory verified

File identity (SHA-256)

bb33d635f03a5bb21feee3a55402374c

fdbd039237571e3ebbe14af7e2169c0e

Clear checks. Clear limits.

What is demonstrated

Nine original equations: linear problem, solution, substitution, fraction addition, percentage, speed with units, Pythagorean relationship, powers with square roots and a two-by-two identity matrix. Four chapters; the final chapter links to each equation.

Mathematical review performed

Presentation MathML namespace and markup checked; three containing XHTML resources correctly declare mathml. Each equation includes native alternative text and a visible explanation. Matrix row structure and all inventory links were checked. The simple numerical examples were reviewed for mathematical consistency; no supplied equation source was compared.

Remaining acceptance checks

DAISY ACE is not installed and was not run. Screen-reader testing, font substitution, reading-system layout, zoom/reflow and color behavior were not tested here. MathML rendering, mathematical speech and equation navigation still need testing in the agreed target reading systems.

Corrections resolved before final validation

EPUB navigation labeling was reduced to the supported markup with explicit headings. Equation captions were moved to the start of their figures to satisfy the HTML content model.

RAW EPUBCHECK 5.4.0 OUTPUT

Validating using EPUB version 3.4 rules.

No errors or warnings detected.

Messages: 0 fatals / 0 errors / 0 warnings / 0 infos

EPUBCheck completed

Authoring references: W3C EPUB 3.3; EPUB Accessibility 1.1. Structural validation does not establish accessibility conformance or reading-system compatibility.

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