

**P260.3 Working Group
Minutes of February 11, 2025 from 11 am to 1 pm PDT
Webex Teleconference Meeting**

1. Call to Order

Call to order at 11:02 am (PST).

2. Roll Call of Attendees

Last, First Name	Affiliation	Member Status Voting (VM) Non-Voting (NVM)	Present
Curey, Randy (Chair)	Northrop Grumman	VM	Yes
Balma, Peter	Retired, Self	VM	Yes
Brown, Richard	NPL	VM	--
Edwards, Doug (Secretary)	Siemens	VM	Yes
Flowers, Keith	Siemens	VM	Yes
Shirley, Eric	NIST	VM	Yes
Webb, John	ABB	VM	Yes
Sullivan, Paul	DuPont	NVM	--

3. Determination of Quorum

Quorum was met and maintained through meeting.

4. Approval of Agenda

No objections. Agenda was approved by acclamation.

5. Approval of Previous Meeting Minutes

[P260.3 WG Minutes \(2024-11-19.R1\)](#)

Minutes were approved by acclamation.

6. Call for Patents / Copyright

- Chair reminded all of the [IEEE-SA Patent policy](#).
- Chair reminded all of the [IEEE-SA Copyright policy](#).
- No Patent or Copyright issues reported.

7. Participant behavior

- Chair reminded all of the [IEEE Behavior – Individual Method](#) principles.

8. Chair's Remarks

Good to continue.

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9. Review Working Group's P&P

QUSCom due to provide a WG P&P for IEEE SA AudCom review. Proposal by QUSCom Chair Keith Flowers is to provide P&P for this WG as this WG is meeting with Quorum.

Motion: Approval *2025 IEEE 260_3 WG PnP Individual as presented.*

Motion by: Doug Edwards

Seconded by: John Webb

Approved without objection.

Motion: Allow Keith Flowers to make revision for issues that Keith deems as not substantive.

Motion: Doug Edwards

2nd Motion: John Webb

Approved without objection.

Keith Flowers will submit P260.3 WG P&P draft to IEEE SA AudCom.

10. Continue review of draft.

All section/bullet numbers are based on the D13 number.

Per previous minutes, started back at **11.11.4.4.**

a) D13: No issues found

- 11.11.4.4.1
- 11.11.4.4.2
- 11.11.4.4.3
- 11.11.4.4.4
- 11.11.4.4.5
- 11.11.4.4.6
- 11.11.4.4.7
- 11.11.4.4.8

b) D13: Examples in 11.11.4.4.9 and 11.11.4.4.10

Decision: Symbol for exponential function should NOT be italics.

Action Item: Eric Shirley to check balance of document.

c) D13: 11.11.5.1 No issues found

d) D13: 11.11.5.2: Bernoulli spelling corrected – added an "l".

e) D13: 11.11.5.3 No issues found.

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f) D13: 11.11.5.4: Added $()$ after cosine to include z in cosine.

$$\begin{aligned}\vartheta_1(z, q) &\triangleq 2 \sum_{k=0}^{\infty} (-1)^k q^{\left(k+\frac{1}{2}\right)^2} \sin((2k+1)z), \\ \vartheta_2(z, q) &\triangleq 2 \sum_{k=0}^{\infty} q^{\left(k+\frac{1}{2}\right)^2} \cos((2k+1)z), \\ \vartheta_3(z, q) &\triangleq 1 + 2 \sum_{k=1}^{\infty} q^{k^2} \cos(2kz), \\ \vartheta_4(z, q) &\triangleq 1 + 2 \sum_{k=1}^{\infty} (-1)^k q^{k^2} \cos(2kz)\end{aligned}$$

g) D13: 11.11.5.5: Weierstrass elliptic function
 Removed the note, "is not recommended"
 Added space between m & n in exponent.

Updated symbol.

Weierstrass elliptic function:			
11.11.5.5	\wp	$\wp(z)$	$\frac{1}{z^2} + \sum_{\substack{-\infty < m, n < +\infty \\ m + n \neq 0}} \left\{ \frac{1}{(z - \tilde{\omega}_{mn})^2} - \frac{1}{\tilde{\omega}_{mn}^2} \right\},$ <p>where $\tilde{\omega}_{mn} \triangleq 2mw_1 + 2nw_2$</p>

h) D13: 11.11.5.6:
 Corrected spelling – "Reimann" to "Riemann"
 Capital Z to lower case z

i) D13: No issues found.
 • 11.11.5.7:

j) D13: No issues found:
 • 11.12.1
 • 11.12.2
 • 11.12.3
 • 11.12.4
 • 11.12.5
 • 11.12.6
 • 11.12.7
 • 11.12.8
 • 11.12.9

k) D13: 11.12.10 Semicolon changed to colon
 normal (Gaussian) pdf; with mean, μ , and standard
 deviation, σ : $\frac{1}{\sigma\sqrt{2\pi}} e^{-(x-\mu)^2/2\sigma^2}$

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l) D13: No issues found

- 11.12.11
- 11.12.12
- 11.12.13

m) D13: 11.12.14:

Change "1, 2, 3, 4" to subscripts.

$\alpha_1 = 0$, $\alpha_2 = 1$, $\alpha_3 \triangleq$ skewness, $\alpha_4 \triangleq$ kurtosis

n) D13: No issues found:

- 11.12.15
- 11.12.16
- 11.12.17
- 11.12.18
- 11.12.19
- 11.12.20
- 11.12.21
- 11.12.22
- 11.12.23

o) D13: 12 Greek characters:

Introduction paragraph revised to following:

Because Greek letters traditionally have been used extensively in mathematical works, it is appropriate to provide a guide for their use in mathematical writing. Greek letter fonts contain both lowercase and uppercase letters as shown in the following table.

p) D13: Added Table number for Greek Letter Symbols table.

This introduced that other tables had the same issue.

Action Item (Randy): Change to have Table titles and numbers. This will require renumbering of items.

q) D13: Greek Letter Symbols

Column 2 – Remove the brackets.

r) D13: phi spelling changed to pi.

s) D13: epsilon **Stopping Point**

Issues with the symbols for lower case variants (U+03F5 – Unicode) and WORD Equation Editor.

t) Start back at Greek Letter Symbols – **Epsilon lower-case symbols.**

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- 11. Next Meeting** – February 24, 2025 – 10:00 am – 12 pm **PST**
- 12. Adjourned** at 1:08 pm (pst).

Reported by,
Doug Edwards
P260.3 Secretary