1. Call to Order

Call to order at 10:15 a.m. (PST).
2. Role Call of Attendees

| Last, First Name | Affiliation | Member Status <br> Voting (VM) <br> Non-Voting (NVM) | Present |
| :--- | :--- | :---: | :---: |
| Curey, Randy (Chair) | Northrop Grumman | VM | Yes |
| Balma, Peter | Retired, Self | VM | No |
| Brown, Richard | NPL | VM | Yes |
| 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 | No |

## 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 (2023-12-12.R1) No objections. 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

Sorry for issues getting WebEx started. Have had "day job" conflicts.
9. Continue review of draft - creating D08 draft.
a) Starting Point - Table 11.5.1 Algebraic functions.
b) 11.5.1.8 Input is that symbol does not have the top of the bracket. Note: Search to find this symbol without the top of the brackets of [ \& ].

There might also add a "ceiling" function with the upper bracket tab without the lower bracket tab.

## X

Will also need to update D07, 11.5.1.9 example.
c) 11.5.1.10 \& 11.5.1.11: Keeping both entries.
d) 11.5 .1 .12 \& 11.5.1.13: Keeping both entries.
e) 11.5.1.14: Revised to use Unconditional equality.
f) 11.5.1.15: Corrected bar over the $0 . \overline{027}$
g) 11.5.1.18: Combinations - Change lead variable from P to C .
$\mathrm{C}(n, m) \equiv \frac{\mathrm{P}(n, m)}{m!} \equiv \frac{n!}{(n-m)!m!}$
h) 11.5.1.19: Reordered to match order of descriptions above. binomial coefficient; generating function:

$$
\binom{n}{m} \equiv \mathrm{C}(n, m) ;(1+\Gamma)^{n} \equiv \sum_{m=0}^{n}\binom{n}{m} x^{m}
$$

i) 11.5.1.19: Cross-reference corrected to be to 11.5.1.18.

Elementary Transcendental Functions
j) 11.5.2.1.2 - The Sign or Symbol corrected to be without the subscript b.

| Item <br> Number | Sign or <br> Symbol | Application |
| :--- | :---: | :---: |
| 11.5 .2 .1 .1 | $\exp$ | $\exp x$ |
| 11.5 .2 .1 .2 | $\log \square$ | $\log _{\mathrm{t}} x$ |
| 11.5 .2 .1 .3 | lb | $\operatorname{lb} x$ |
| 11.5 .2 .1 .4 | $\lg$ | $\lg x$ |
| 11.5 .2 .1 .5 | $\ln$ | $I$ |
| $\ln x$ |  |  |

## Minutes of April 18, 2024 from 10 AM to 12 PM PDT <br> Web Teleconference Meeting

k) 11.5.2.1.5 Added closing parenthesis. This is mistake from previous document.
natural (Napierian) IDgarithm of $x$ : $\log _{e} x$;
$\ln _{n} x \triangleq \ln \left(\ln _{n-1} X\right)$, where $\ln _{0} x \triangleq x$
I) ctn vs cot11.5.2.1.4 "Ig": Decision - To remove or keep as is - the entry for " Ig "?
Decision: Keep as there are other standards with references to "lg".
m) 11.5.2.2.4 \& 11.5.2.2.13, \& 11.5.2.2.14 Instead of symbol "ctn", more common to see "cot".
$\rightarrow$ For future consideration.
Research is that ISO 80000-2:2019 references use of "cot", do not use "ctg", and "ctn" is NOT found.
n) 11.5.2.2.15 \& 11.5.2.2.17 arcsec: Less than equal to changed to Greater than equal to.

| 11.5 .2 .2 .15 | $\operatorname{arcsec}$ | $\operatorname{arcsec} q$ | angle whose secant is $q\left(q^{2} \geq 1\right)$ |
| :--- | :--- | :--- | :--- |
| $11.5 .2 .2 .1 \lambda$ | $\operatorname{arccsc}$ | $\operatorname{arccsc} q$ | angle whose cosecant is $q \quad\left(q^{2} \geq 1\right)$ |

o) 11.5.2.2.20, .21, .22, .23: vers, covrs, exsec, hav Decision: Remove terms on basis that terms are considered deprecated and are not included in ISO 80000-2:2019.

Additional comment, the list is quite incomplete such as not having havercosine.

Proposal: Will add to the Introduction to include statement of, "The functions versed sine, coversed sine, exsecant and haversine have largely gone out of use and have been omitted."

## p) Start back at D8 section 11.5.2.3 Hyperbolic functions

10. Next Meeting - Via Doodle Poll - in May 2024.
11. Adjournment

Meeting adjourned at 11:57 p.m. (PST).
Reported by, Doug Edwards
P260.3 Secretary

