

References

Mathematics / Logic (TREE(3), Ordinals, Proof Theory)

- 1) Kruskal, J. B. (1960). Well-quasi-ordering, the tree theorem, and Vazsonyi's conjecture. Transactions of the A
- 2) Friedman, H. (1995–2000). Foundational studies connecting finite combinatorics and large countable ordinals.
- 3) Harvey Friedman's Boolean Relation Theory & finite independence results (overview). OSU/MathArchive.
- 4) Rathjen, M. (2006). Proof theory of reflection. In Handbook of Proof Theory. Elsevier.
- 5) Schütte, K. (1977). Proof Theory. Springer.
- 6) Gentzen, G. (1936/1969). Investigations into mathematical logic (Consistency of Arithmetic). In The Collected

Computational Limits / Complexity / Incompleteness

- 7) Chaitin, G. J. (1974). Information-theoretic limitations of formal systems. JACM, 21(3), 403–424.
- 8) Rado, T. (1962). On non-computable functions (Busy Beaver). Bell System Technical Journal, 41, 877–884.
- 9) Arora, S., & Barak, D. (2009). Computational Complexity: A Modern Approach. Cambridge.
- 10) Soare, R. I. (1999). Recursively Enumerable Sets and Degrees. Springer.

Quantum Computation / Boundaries

- 11) Nielsen, M. A., & Chuang, I. (2010). Quantum Computation and Quantum Information (10th ann. ed.). Cambridge.
- 12) Preskill, J. (2018). Quantum computing in the NISQ era and beyond. Quantum, 2, 79.
- 13) Gottesman, D. (1997). Stabilizer codes and quantum error correction (PhD thesis). Caltech.
- 14) Aaronson, S. (2013). Quantum Computing Since Democritus. Cambridge.
- 15) Arute, F., et al. (2019). Quantum supremacy using a programmable superconducting processor. Nature, 574, 505–532.

Standards / Security / Cryptography (Quantum-Safe)

- 16) NIST (2023–2024). Post-Quantum Cryptography Standardization (Kyber, Dilithium). NIST.gov.
- 17) ETSI (2020). Quantum-Safe Cryptography technical reports. ETSI.org.
- 18) ENISA (2022–2024). Post-Quantum Cryptography: Current state & quantum threat landscape. ENISA.europa.eu.
- 19) NSA/CSSA 2.0 (2022). Commercial National Security Algorithm Suite 2.0. NSA.gov.
- 20) ISO/IEC 23837 (2023). Security requirements for quantum-safe cryptography. ISO.org.

AI / Systemic Governance / Risk

- 21) NIST (2023). AI Risk Management Framework (AI RMF 1.0). NIST.gov.
- 22) MITRE (2024). SAFE-AI / ATLAS. MITRE.org.
- 23) EU AI Act (2024). Harmonised rules on Artificial Intelligence. eur-lex.europa.eu.
- 24) IEEE (2020). Ethically Aligned Design. standards.ieee.org.

Systems / Signal / Entanglement Analogies

- 25) Oppenheim, A. V., & Schaffer, R. (2009). Discrete-Time Signal Processing (3rd ed.). Pearson.
- 26) Bishop, C. M. (2006). Pattern Recognition and Machine Learning. Springer.

Blockchain / DLT (auditability)

- 27) Nakamoto, S. (2008). Bitcoin: A Peer-to-Peer Electronic Cash System. bitcoin.org.
- 28) Buterin, V. (2013). Ethereum: A Next-Generation Smart Contract & DApp Platform.
- 29) Wüst, K., & Gervais, A. (2018). Do you need a blockchain? IEEE Crypto Valley Conf.

- 30) Hyperledger Foundation (2022). Hyperledger Fabric docs. hyperledger.org.
- 31) ISO/TC 307 (2020–2023). Blockchain and DLT — standards series. [ISO.org](https://iso.org).

Resonance / Systems Foundations

- 32) Bohm, D. (1980). Wholeness and the Implicate Order. Routledge.
- 33) Prigogine, I. (1997). The End of Certainty. Free Press.
- 34) Penrose, R. (2004). The Road to Reality. Jonathan Cape.
- 35) Tressoldi, P. E., et al. (2015). Resonance theories of brain and consciousness. Neuroscience & Biobehavioral Reviews.
- 36) Havelock, D., Kuwano, S., & Vorländer, M. (2008). Handbook of Signal Processing in Acoustics. Springer.

Codex / Harmonic Intelligence (Author's Works)

- 37) Varughese, P. C. (2025). Codex Mathematical Framework: $\Omega+1 \uparrow \text{TREE}(3)$. Public GitHub Pages PDF.
- 38) Varughese, P. C. (2025). Codex Execution Scroll & Comparator. Public GitHub Pages PDFs.