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In a model of computation that uses deterministic transitions from one state of the abstract machine to another, a necessary condition for reversibility is that the relation of the mapping from (nonzero-probability) states to their successors must be one-to-one. Reversible computing is a form of unconventional computing.

### Reversible computing - Wikipedia

QCA Layout of Arithmetic Unit Fig.8 depicts the QCA layout of the Arithmetic Unit exhibited with an output equation of  $OUT = (AC\ 0 + AC\ 1) \text{ xor } B \text{ xor } C\ 2$ . Based on this equation the arithmetic...

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Kalyan S Perumalla. 2013. Introduction to Reversible Computing. Chapman and Hall/CRC. Google Scholar; Kalyan S Perumalla and Vladimir A Protopopescu. 2013. Reversible Simulations of Elastic Collisions. ACM Transactions on Modeling and Computer Simulation (TOMACS), Vol. 23, 2 (2013), 12. Google Scholar; Kalyan S Perumalla and Sudip K Seal. 2010.

### From Effects to Causes: Reversible Simulation and Reverse ...

His recent book Introduction to Reversible Computing (Amazon, CRC Press) is among the first few in its area. He co-authored another book, three book chapters, and over 100 articles in peer-reviewed conferences and journals. Five of his co-authored papers received the best paper awards, in 1999, 2002, 2005, 2008, and 2014.

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