

## Quantum Computer Science N David Mermin

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### Quantum Computer Science N David

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### Quantum Computer Science: An Introduction; Quantum ...

I have tried to put the subject of quantum computation together in a way that makes sense to computer scientists unfamiliar with quantum mechanics, physicists unfamiliar with computational complexity theory, and philosophers of science. A book, Quantum Computer Science , incorporating my lecture notes was published by Cambridge University Press ...

### N. David Mermin - Cornell University

In 1985 David Deutsch of the University of Oxford described the construction of quantum logic gates for a universal quantum computer, and in 1994 Peter Shor of AT&T devised an algorithm to factor numbers with a quantum computer that would require as few as six qubits (although many more qubits would be necessary for factoring large numbers in a reasonable time).

### Quantum computer | computer science | Britannica

Quantum computing uses certain algebraic methods to develop algorithms for computations, where these algebraic methods are the ones or in parallel to the ones that are applied in quantum mechanics. A 'conceptual' computer that can implement those algorithms is the quantum computer.: 1-5.. In a sense, the term quantum computing is a misnomer as it tends to imply the meaning of some technology ...

### Quantum computing - Wikipedia

Nathaniel David Mermin (/ ˈ m ɜː r m ɪ n /; born 1935) is a solid-state physicist at Cornell University best known for the eponymous Mermin–Wagner theorem, his application of the term "boojum" to superfluidity, his textbook with Neil Ashcroft on solid-state physics, and for contributions to the foundations of quantum mechanics and quantum information science.

### N. David Mermin - Wikipedia

$H(K) = - \sum (P(K)) \log (P(K))$ : "Quantum Computer Science" by N. David Mermin Here is a puzzle quantum computers won't solve: 1. We have a randomized ASCII extended string X1 transforming the plaintext. 2. We

have a randomized ASCII extended string X2 creating the key characters.

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**From Cbits to Qbits: Teaching Computer Scientists Quantum ...**

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We simulated quantum chemistry in a second-quantized representation in which the state of each of N qubits encoded the occupancy of an orbital basis function. We used what are commonly referred to as "core orbitals" as the initial orbitals (shown for H<sub>12</sub> in Fig. 1A, left), which are the eigenfunctions of the molecular Hamiltonian without the electron-electron interaction term.

**Hartree-Fock on a superconducting qubit quantum computer ...**

Quantum Computer Science by David Mermin. Publisher: Cambridge University Press 2007 ISBN/ASIN: 0521876583 ISBN-13: 9780521876582 Number of pages: 236. Description: This book is a concise introduction to quantum computation, developing the basic elements of this new branch of computational theory without assuming any background in physics.

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