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The Global Market for Quantum Technology 2024-2035

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Abstracts

Quantum technologies leverage unique properties of quantum physics like superposition, entanglement, and interference to enable new paradigms for information processing, communications, and measurement. Major application areas and techniques currently being researched and developed include:

Quantum computing - gate-based universal quantum computers, adiabatic quantum annealing, quantum simulators

Quantum cryptography - quantum key distribution, quantum random number generation, post-quantum cryptography

Quantum communication - quantum teleportation, quantum repeaters, quantum networks

Quantum sensing - quantum LiDAR, atomic clocks, quantum radar, quantum imaging

The Global Market for Quantum Technology 2024-2035 explores the rapidly evolving landscape of quantum technologies and their transformative impact on various industries. This in-depth study provides a detailed analysis of the quantum technology market, covering key segments such as quantum computing, quantum communications, quantum sensing, and quantum materials. The report offers valuable insights into the current market landscape, investment trends, and global government initiatives driving the adoption of quantum technologies. It also examines the challenges and limitations hindering widespread commercialization and presents a future outlook for the industry.

One of the key highlights of this report is the extensive coverage of quantum computing

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technologies and architectures, including superconducting qubits, trapped ion qubits, silicon spin qubits, topological qubits, and more. The report also delves into the software and algorithmic aspects of quantum computing, discussing quantum machine learning, quantum simulation, and quantum optimization.

In addition to quantum computing, the report provides a comprehensive analysis of quantum communications technologies, such as quantum key distribution (QKD), post-quantum cryptography, and quantum networks. It also explores the emerging field of quantum sensing, covering applications like atomic clocks, quantum magnetometers, quantum gravimeters, and quantum radar.

The Global Market for Quantum Technology 2024-2035 includes detailed market forecasts and projections for quantum computing hardware, software, and services, as well as for quantum sensors and QKD systems. The report also features a comprehensive market map, highlighting the key players in the quantum technology ecosystem, including startups, tech giants, and national initiatives. With 290 company profiles, the report offers an unparalleled overview of the competitive landscape, providing valuable information on the products, technologies, and strategies of leading quantum technology players worldwide. Companies profiled include Aegiq, Alea Quantum, Algorithmiq, Arque Systems, Classiq Technologies, Crypta Labs, Diraq, IBM (Quantum Computing), Infineon, LQUOM, memQ, Nanofiber Quantum Technologies, Nomad Atomics, nu quantum, Oxford Ionics, PASQAL, Pixel Photonics, Planckian, Polaris Quantum Biotech (POLARISqb), PsiQuantum, Quantinuum, QuantrolOx, Quantum Bridge, Quantum Brilliance, Quantum Computing Inc, Quobly, Quantum Dice, Quantum Motion, QuiX Quantum, Quside Technologies, QUANTier, Randaemon, River Lane, SEEQC, SemiWise, SemiQon, Silicon Extreme, Silicon Quantum Computing (SQC), Siquance, Sparrow Quantum and XeedQ.

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Figure 71. Toshiba Quantum Key Distribution technology.

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