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(57) Abstract :
The present invention relates to a Virtual Reality system (100) for remote scientific experiment simulations, integrating VR headset (101), haptic controllers (102), AI-based simulation engine (103), experiment library (104), user interface module (105), and cloud collaboration server (106). The system enables immersive, accurate, and safe laboratory experiences by replicating real-world experiments virtually. It supports multi-user collaboration, scalability, and real-time analytics, providing cost-effective and risk-free alternatives to physical laboratories, thereby enhancing scientific education and research accessibility globally.

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