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(57) Abstract :

The present invention discloses a real-time equation balancing device (100) designed for interactive balancing of algebraic and chemical equations. It comprises a dual-mode selector (101), numeric rotors (103), a compound entry section (104), coefficient sliders (105), and a central processor (106). The device offers immediate feedback via a visual display (107) and LED indicators (108), enabling users to learn through real-time correction. It enhances conceptual understanding, supports classroom integration, and promotes active learning through tactile, visual, and auditory feedback mechanisms.

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