Neurosonology is a first-line modality in the diagnosis and management of cerebrovascular disease and especially of stroke.

In this new edition of Neurosonology and Neuroimaging of Stroke, this noninvasive, realtime imaging method has been given expanded coverage, particularly for its clinical utility.

As in the first edition, the new edition offers both a clear overview of the principles of neurosonology and a casebook exploring critical cerebrovascular problems. Ultrasound anatomy, technical aspects of clinical application, and the advantages and limitations of ultrasound are reviewed and contrasted to conventional, magnetic resonance, and computed tomography angiography. Forty-five selected cases from the authors’ extensive collections at Charité - Universitätsmedizin Berlin and the Center of Neurology in Bad Segeberg, Germany, are then discussed. The patient histories and working diagnoses are followed by detailed assessments of the extra- and intracranial color-coded duplex sonographic findings and additional diagnostic procedures. The relevant clinical aspects are presented in a compact, comprehensible way.

Key Features:
- Complete extra- and intracranial arterial and venous ultrasound examination
- New techniques: ultrasound fusion imaging, ultrafast ultrasound, contrast application
- More than 1,300 high-quality illustrations, including full-color duplex images
- Fifteen newly selected cases on conditions such as subarachnoid hemorrhage and dural fistula, as well as rare stroke causes including sickle cell disease and reversible cerebral vasoconstriction syndrome
- Revision of many cases from the first edition