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Nota di contenuto	Eröffnung -- Opening address -- Education, training, and research in the engineering sciences -- Numerical solution of conservation laws -- Numerical methods for computation of multi-dimensional discontinuous gas flow -- Studies on the motion and decay of a vortex filament -- The contribution to aircraft design of research in fluid dynamics -- High-Reynolds number boundary-layer shock-wave interaction in transonic flow -- Flow in multiply-connected domains -- Numerical solution of compressible viscous flows at high Reynolds numbers -- Boundary-layer waves and transition -- Pattern recognition of bounded turbulent shear flows -- Biological flow in deformable vessels -- Steady transport of material in the artery wall -- Numerical studies of nonhomogeneous fluid flows.