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This volume constitutes the proceedings of a satellite symposium of the XXXth congress of the International Union of Physiological Sciences. The symposium has been held in Banff, Alberta Canada July 9-11 1986.

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vorticity over the area enclosed by the contour vorticity over the area enclosed by the contour. • For a finite area, circulation divided by area gives the average normal component of vorticity in the region normal component of vorticity in the region.

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The second part applies mechanical reasoning to the component parts of the circulation: blood, the heart, the systemic arteries, microcirculation, veins and the pulmonary circulation. Each section demonstrates how an understanding of basic mechanics enhances our understanding of the function of the circulation as a whole.

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Cardiovascular Mechanics 7 As transmural pressure increases, blood vessels expand, store more volume, and hence behave as capacitance elements in the circulation.

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The second part applies mechanical reasoning to the component parts of the circulation: blood, the heart, the systemic arteries, microcirculation, veins and the pulmonary circulation. Each section demonstrates how an understanding of basic mechanics enhances our understanding of the function of the circulation as a whole.

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In fluid dynamics, circulation is the line integral around a closed curve of the velocity field. Circulation is normally denoted  $\Gamma$  ( Greek uppercase gamma ). Circulation was first used independently by Frederick Lanchester , Martin Kutta and Nikolai Zhukovsky .

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