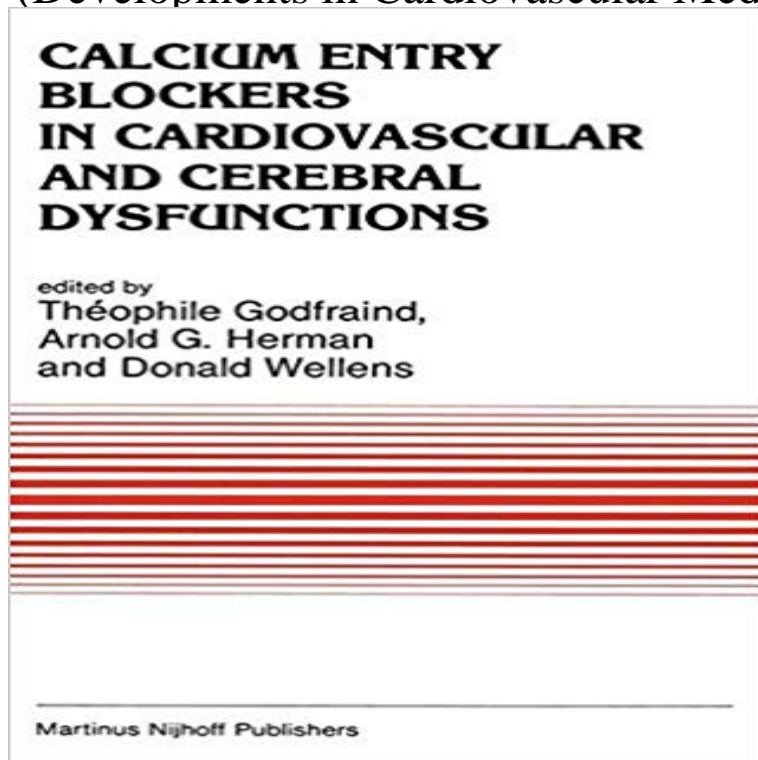


Calcium Entry Blockers in Cardiovascular and Cerebral Dysfunctions (Developments in Cardiovascular Medicine)



2 The free internal Ca^{2+} concentration in human red cells is set according to the leak and-pump principle: There is a finite passive Ca^{2+} influx at the physiological Ca^{2+} -gradient across the membrane which is compensated by Ca^{2+} pumping in the outward direction with a rate given by the degree of saturation of the ATP-fuelled Ca^{2+} pump at the steady-state internal Ca^{2+} concentration. Simons (1982) recently devised a method allowing the measurement of the steady state internal Ca^{2+} concentration. Cells are suspended in media of different Ca^{2+} concentration whose Ca^{2+} concentration is monitored by a Ca^{2+} -selective electrode. When the cells are lysed (by digitonin) there is an upward or downward deflection of the electrode signal. At the point of zero deflection, the cellular Ca^{2+} concentration equals that of the medium. The result is, that in fresh human red blood cells the Ca^{2+} concentration is $0.4 \mu M$ (this is an upper estimate; the true value may be considerably lower).

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