



Fig. 1 A typical form for the relationship between  $X_{t+1}$  and  $X_t$  described by equation (1). The curves are for equation (1), with  $\alpha = 2.707$  (a); and  $\alpha = 3.414$  (b). The dashed lines indicate the slope at the "fixed points" where  $F(X_t)$  intersects the 45° line: for the case  $\alpha$  this slope is less steep than  $-45^\circ$  and the fixed point is stable; for  $\delta$  the slope is steeper than  $-45^\circ$ , and the point is unstable.