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Existence of S-equicontinuity in S-Lyapunov stability.

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Summary: Our main purpose here is to give a characterization of an almost periodic motion in terms of equicontinuity which is very closely connected with Lyapunov stability and also to show the existence of equicontinuity in S-Lyapunov stability.

Classification: I90

Keywords: dynamical systems; stability theory; operator theory; fixed-point theorems; topology