Iterated function systems and their attractors

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We deal with the part of Fractal Theory related to iterated function systems on a topological space X. By an *Iterated Function System* (IFS) we understand a dynamical system generated by a finite family of continuous self-maps of X. An *attractor* is a compact set, invariant for such a family. In other words, an IFS-attractor is the unique fixed-point of the dynamical system acting on the hyperspace of non-empty compact sets endowed with the Vietoris topology. We consider topological and contracting properties of iterated function systems. We present the topological definition of IFS-attractor and show the metrization theorem connected with this subject.