For a mapping φ : S → T, let ker φ = {(u, v) : φ(u) = φ(v)} be the kernel of φ.

Theorem 5.5

An A-generated profinite semigroup S is a continuous homomorphic image of $\overline{\Omega}_A \mathbf{V}$ if and only if it is a pro-**V** semigroup.

COROLLARY 5.6

Let S be a pro-**V** semigroup and suppose that $\varphi : S \to T$ is a continuous homomorphism onto a finite semigroup. Then $T \in \mathbf{V}$.