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**Douglas Cenzer\*** ([cenzer@ufl.edu](mailto:cenzer@ufl.edu)), Department of Mathematics, P.O. Box 118105, University of Florida, Gainesville, FL 32611-8105. *Algorithmic methods for equivalence relations.*

We examine the effective existence and uniqueness of effective equivalence relations on a countable set. This is done for computable structures and also for structures with complexity in the Ershov difference hierarchy. Isomorphisms between structures may be computable,  $\Delta_2^0$  or somewhere in between. (Received September 07, 2007)