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**Class preserving mappings of equivalence systems.** (English) [Zbl 1077.08001](#)  
*Acta Univ. Palacki. Olomuc., Fac. Rerum Nat., Math.* 43, 61-64 (2004).

An equivalence system is a pair  $\langle A, \Theta \rangle$  where  $\Theta$  is an equivalence relation on a nonvoid set  $A$ . A mapping  $h : A \rightarrow B$  is called a class-preserving mapping of systems  $\langle A, \Theta \rangle$  and  $\langle B, \Phi \rangle$  whenever  $h([a]\Theta) = [h(a)]\Phi$ ,  $a \in A$ . It is proved that a class-preserving mapping  $h$  from  $\langle A, \Theta \rangle$  can be characterized by permutability of equivalence relations  $\Theta$  and  $\text{Ker } h$ . The topic was investigated by *H. Werner* [*Math. Z.* 121, 111–140 (1971; [Zbl 0203.22902](#))].

Reviewer: Jaromír Duda (Brno)

**MSC:**

[08A02](#) Relational systems, laws of composition

[03E20](#) Other classical set theory (including functions, relations, and set algebra)

Cited in 1 Document

**Keywords:**

[equivalence relation](#)

**Full Text:** [EuDML](#)

**References:**

- [1] Madarász R., Crvenković S.: *Relacione algebre.* : Matematički Institut, Beograd. 1992.
- [2] Maltsev A. I.: *Algebraic systems.* : Nauka, Moskva. 1970)
- [3] Riguet J.: Relations binaires, fermetures, correspondances de Galois. *Bull. Soc. Math. France* 76 (1948), 114-155. · [Zbl 0033.00603](#)

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