



planetmath.org

Math for the people, by the people.

Chu transform

Canonical name	ChuTransform
Date of creation	2013-03-22 13:05:03
Last modified on	2013-03-22 13:05:03
Owner	Henry (455)
Last modified by	Henry (455)
Numerical id	4
Author	Henry (455)
Entry type	Definition
Classification	msc 03G99

If $\mathcal{C} = (\mathcal{A}, r, \mathcal{X})$ and $\mathcal{D} = (\mathcal{B}, s, \mathcal{Y})$ are Chu spaces then we say a pair of functions $f : \mathcal{A} \rightarrow \mathcal{B}$ and $g : \mathcal{Y} \rightarrow \mathcal{X}$ form a *Chu transform* from \mathcal{C} to \mathcal{D} if for any $(a, y) \in \mathcal{A} \times \mathcal{Y}$ we have $r(a, g(y)) = s(f(a), y)$.