

Yousefi, B.

Composition operators on weighted Hardy spaces. (English) Zbl 1085.47031
Kyungpook Math. J. 44, No. 3, 319-324 (2004).

The paper is concerned with composition operators on weighted Hardy spaces of the type $H^p(\beta) = \{f(z) = \sum a_n z^n : \|f\|_\beta^p := \sum |a_n|^p \beta(n)^p < \infty\}$. Unfortunately, the paper contains some erroneous statements; in particular, not every composition operator $f \mapsto f \circ \phi$ maps $H^p(\beta)$ into itself. Also, the range of p has to exclude $p = 1$ in order that some statements and formulas make sense. No examples are given as to whether there really exist compact composition operators C_ϕ on $H^p(\beta)$ for the weights appearing in Theorem 1 and for which ϕ actually has a finite angular derivative at some point.

Reviewer: [Raymond Mortini \(Metz\)](#)

MSC:

47B33 Linear composition operators
47B37 Linear operators on special spaces (weighted shifts, operators on sequence spaces, etc.)

Cited in **8** Documents

Keywords:

weighted Hardy spaces; angular derivative; compact composition operator