ON QUASI-HADAMARD PRODUCTS OF SOME FAMILIES OF STARLIKE FUNCTIONS WITH NEGATIVE COEFFICIENTS

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Abstract. The objective of the present paper is to show quasi-Hadamard products of some families of starlike functions with negative coefficients in the open unit disc. Our results generalize corresponding results of Aouf and Srivastava.

MSC 2000. 30C45.

Key words. Analytic, quasi-Hadamard product, negative coefficients.

REFERENCES

[1] ALTINTAS, O., *On a subclass of certain starlike functions with negative coefficients*, Math. Japon. **36** (1991), 489–495.

[2] AOUF, M.K. and SRIVASTAVA, H.M., *Some families of starlike functions with negative coefficients*, J. Math. Anal. Appl. **203** (1996), 762–790.

[3] CHATTERJEA, S.K., *On starlike functions*, J. Pure Math. **1** (1981), 23–26.

[4] KIM, H.J., KIM, J.A., CHO, N.K., KWON, O.S. and OWA, S., *On quasi-Hadamard product of certain analytic functions with negative coefficients*, Math. Japon. **41** (1995), 277–281.

[5] OWA, S., *The quasi-Hadamard products of certain analytic functions*. In: H.M. Srivastava and S. Owa (Eds.), Current Topics in Analytic Functions Theory, Word Scieftific, Singapore, 1992, pp. 234–251.

[6] SĂLĂGEAN, G.S., *Subclasses of univalent functions*. In "Complex Analysis: Fifth Romanian-Finnish Seminar", Part I (Bucharest, 1981), pp. 362–372, Lecture Notes in Math., Vol. 1013, Springer-Verlag, Berlin, Heidelberg and New York, 1983.

[7] SILVERMAN, H., *Univalent functions with negative coefficients*, Proc. Amer. Math. Soc. **51** (1975), 109–116.

[8] SRIVASTAVA, H.M., OWA, S. and CHATTERJEA, S.K., *A note on certain classes of starlike functions*, Rend. Sem. Mat. Univ. Padova **77** (1987), 115–124.

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