

Developments of an evaluation method and a measurement system for an appearance of human skin

Isao Oda

Department of Mechanical Engineering, Kisarazu National College of Technology

Youthfulness of a human appearance is considerably affected by youthfulness of skin. Now, youthfulness of skin is mainly evaluated by measurement of the skin age. Skin age is measured by a water quantity of skin, a smoothness of skin, an elasticity of skin, and so on. However, an appearance of skin may be able to be evaluated by the index that is different from the skin age. We paid attention to a translucency of skin as the element which affected the appearance of skin. It seems that beauty of skin have some relation to translucency of skin, because there is expression of "transparent white skin" from old days. However, a measurement method and an evaluation method of translucency of human skin are not established yet. In this report, we suggest one method for evaluation of skin translucency. In this method, we project a stripe pattern to an object and measure its contrast. We measured the contrast of stripe pattern to acrylic plates. As a result of the experiment, it was shown that the evaluation of translucency of an object was possible by our method.