

의복내기후의 쾌적성 평가지표에 관한 연구

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Study on development of comfort index in clothing climate

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Abstract

Clothing comfort is related to complex interactions between fabric, climatic, physiological and psychological variables. It depends upon the balance between body's energy production and the exchange of energy with the environment. In the meteorological field, Discomfort Index (DI) has been used for estimating the comfort or discomfort feeling, but the discomfort feeling is different with individuals and it can be changed by clothing system. However, the index for clothing comfort is not established yet. In this study, we specified comfort or discomfort range by means of psycho-physiological response with various temperature and humidity conditions. It was compared to the range of DI, we could recognize that direct application of Discomfort Index to estimate clothing climate was impossible, and verified the possibility of new estimating index for clothing climate.

Keywords : Clothing comfort, Discomfort index, Clothing climate