

Thermal comfort. Analysis and applications in environmental engineering.

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Thermal comfort. Analysis and applications in environmental engineering.

Author(s) : [FANGER, P. O.](#)

Book : [Thermal comfort. Analysis and applications in environmental engineering.](#) pp.

Abstract : This book is basically an account of research undertaken by the author and his colleagues at the Technical University of Denmark and at the Institute for Environmental Research, Kansas State University.

Although the data in the literature on thermal comfort are extensive, they are

and not related to a general theory of thermal comfort. Consequently the is not easy to apply in practice since many of the factors influencing comfort vary independently of one another, giving situations which have no counterpart in the literature. The author has taken the view that it is the combined thermal effects of physical factors which is of prime importance in determining man's thermal comfort. He develops this concept into a general comfort equation which " defines all conditions of the variables which will create thermal comfort."

By means of the comfort equation therefore it is possible, for any activity level and clothing, to calculate the air temperature, mean radiant temperature, air velocity and humidity values which will create thermal comfort. This claim will attract a lot of attention and it is unlikely that much work over the next few years on thermal comfort will be done without reference to the " general comfort equation."

The book contains chapters on: Conditions for thermal comfort; The influence of special factors on the application of the comfort equation; Practical assessment of thermal environments; two detailed chapters on Calculation of mean radiant temperature and Radiation data for the human body; and a final chapter on Thermal environment. This book is well written and produced, with examples showing how to use the equation and graphs. It will be essential reading for people working in the field of thermal comfort and can be recommended without reservation to all who are interested in thermal comfort in man's environment. *G. W. Crockford.*

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Geographical Location(s) : Denmark, Kansas, Nordic Countries, USA

Broader term(s) : Homo, Hominidae, primates, mammals, vertebrates, Chordata, Eukaryotes, Developed Countries, European Union Countries, OECD Countries, Scandinavia

Nordic Countries, Northern Europe, Europe, Great Plains States of USA, USA, APE

North America, America, Northern Plains States of USA, West North Central State

Central States of USA

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