

Human body size and capabilities in the design and operation of vehicular equipment

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Résumé ou extrait : "The high incidence of temporary and fatal injuries resulting from accidents on the highways constitutes a major problem in both civilian and military populations. The loss of life and incapacity from this cause, particularly among the younger age groups, is greater than from any known disease entity. Existing concepts of public health should be extended, therefore, to include safety in various fields of transportation and in industry in general. Since human factors play such an important role in the causation of accidents, it logically follows that control measures should be broadened to include contributions from the fields of preventive medicine and related biological sciences. During the past four years an extensive research program in the field of highway safety has been in progress in the Department of Industrial Hygiene at the Harvard School of Public Health. Emphasis has been placed on developing measures to improve safety in the design and operation of all types of vehicular equipment both civilian and military. A team of scientists with specialized training in engineering, experimental psychology, physiology, and physical anthropology has participated in this research program. Studies have been made in regard to the selection of drivers, health maintenance, operating practices, and design of equipment. The primary objective has been to reduce the high frequency of accidents, lower training and operating costs, and prevent the extensive redesign of equipment after it is put into use. The first report, entitled Human Factors in Highway Transport Safety, should be consulted for the details of this investigation. One phase of the research program outlined above was concerned with the extent to which trucks and buses and other types of vehicular equipment had been designed to meet the human

requirements of the operators. A detailed evaluation was made of fourteen trucks and six buses from the point of view of human engineering. The purpose of the study was to determine whether an effective integration had been achieved between drivers and their equipment and whether some accidents resulted from defective designs. A summary evaluation, entitled Human Factors in the Design of Highway Transport Equipment, presents the results of this study."--Preface

Sujet - Nom commun : Véhicules militaires -- Design

Design -- Design

Ingénierie

Anthropométrie