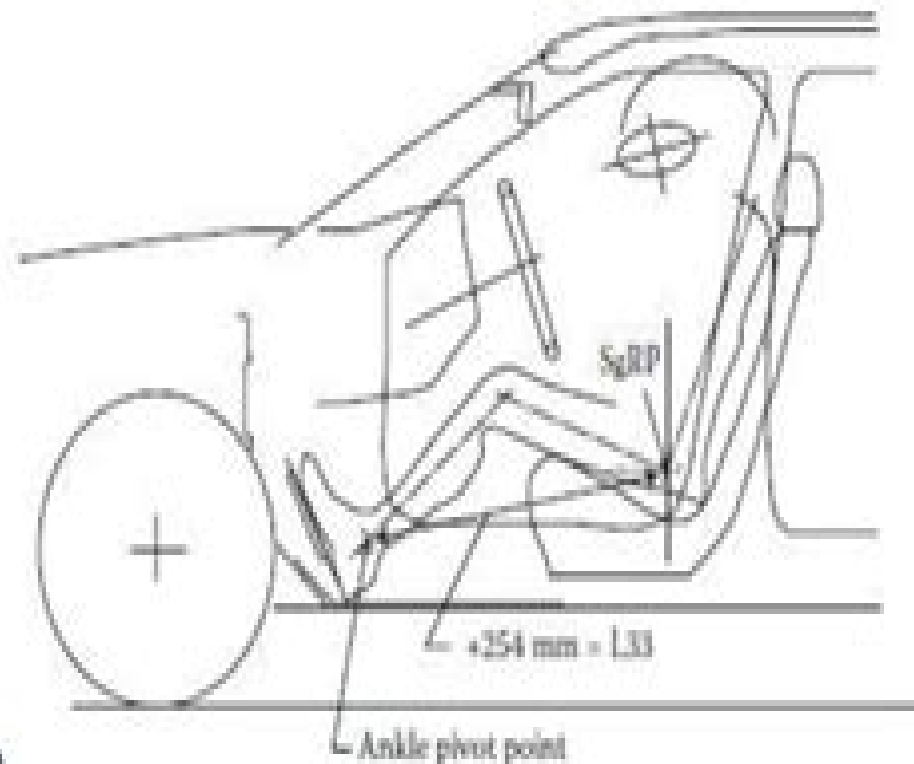


# Basic Ergonomics in Automotive design

## The Fundamentals of Human-System Interactions - Interior Dimensions – Leg room (L23)

7. **Leg room (L33):** It is the maximum distance along a line from the ankle pivot centre to the farthest H-point in the travel path, plus 254 mm (to account for the ankle point to accelerator pedal distance), measured with the right foot on the undepressed accelerator pedal (see Figure below). It is also one of the commonly reported interior dimensions and is usually included in vehicle brochures and websites.



leg room (L33)

# Ergonomics In The Automotive Design Process

**Mohammad Muzammil, Abid Ali  
Khan, Faisal Hasan**



## **Ergonomics In The Automotive Design Process:**

Ergonomics in the Automotive Design Process Vivek D. Bhise, 2011-09-15 The auto industry is facing tough competition and severe economic constraints Their products need to be designed right the first time with the right combinations of features that not only satisfy the customers but continually please and delight them by providing increased functionality comfort convenience safety and craftsmanship Based on the author's forty plus years of experience as a human factors researcher engineer manager and teacher who has conducted numerous studies and analyses Ergonomics in the Automotive Design Process covers the entire range of ergonomics issues involved in designing a car or truck and provides evaluation techniques to avoid costly mistakes and assure high customer satisfaction The book begins with the definitions and goals of ergonomics historic background and ergonomics approaches It covers human characteristics capabilities and limitations considered in vehicle design in key areas such as anthropometry biomechanics and human information processing It then examines how the driver and the occupants are positioned in the vehicle space and how package drawings and or computer aided design models are created from key vehicle dimensions used in the automobile industry The author describes design tools used in the industry for occupant packaging driver vision and applications of other psychophysical methods He covers important driver information processing concepts and models and driver error categories to understand key considerations and principles used in designing controls displays and their usages including current issues related to driver workload and driver distractions The author has included only the topics and materials that he found to be useful in designing car and truck products and concentrated on the ergonomic issues generally discussed in the automotive design studios and product development teams He distills the information needed to be a member of an automotive product development team and create an ergonomically superior vehicle

**Ergonomics in the Automotive Design Process** Vivek D. Bhise, 2024-06-01 Automotive design continues to evolve at a rapid pace As electric cars become ever more commonplace on the roads to the advent of the driverless vehicle understanding the ergonomics behind automotive engineering becomes ever more paramount Vehicle attributes must be considered early during the new vehicle development program by coordinated work of multi disciplinary teams to begin creating vehicle specifications and development of vehicle attribute requirements In Ergonomics in the Automotive Design Process Concepts Issues and Methods Vivek D Bhise covers the need to know fundamentals as to what makes an ergonomically sound vehicle This book covers the entire range of ergonomics issues involved in designing a car or truck and offers evaluation techniques to avoid costly mistakes and assure high customer satisfaction Across 13 chapters vehicle design and the attributes of vehicle handling appearance interior and exterior styling safety and security infotainment noise and vibrations emissions costs and process compatibility are considered in the context of ergonomics New material to this edition includes coverage of ergonomics in the systems engineering process decision making and risks in automotive product programs and ergonomic considerations in electric vehicle development This book will allow the reader

to develop a more comprehensive knowledge of issues facing the developers of automotive products and delivers methods to manage communication coordination and integration processes It provides more tools in implementing systems engineering to minimize the risks of delays and cost overruns and most importantly creates the right product for its customers The reader will develop a knowledge of future in vehicle devices that are easy to program and use safe cheap to manufacture and assemble and are eco friendly From an author with over forty years of experience in automotive design this title is an ideal read for students and practitioners of ergonomics human factors automotive design civil engineering product design work design and mechanical engineering Vivek D Bhise is currently a LEO Lecturer Visiting Professor and a Professor in post retirement of Industrial and Manufacturing Systems Engineering at the University of Michigan Dearborn He received his B Tech in Mechanical Engineering 1965 from the Indian Institute of Technology Bombay India M S in Industrial Engineering 1966 from the University of California Berkeley and PhD in Industrial and Systems Engineering 1971 from the Ohio State University Columbus Ohio During 1973 to 2001 he held several management and research positions at the Ford Motor Company in Dearborn Michigan

**Ergonomics in the Automotive Design Process** Vivek D. Bhise, 2024-06 In Ergonomics in the Automotive Design Process Concepts Issues and Methods Vivek D Bhise covers the need to know fundamentals as to what makes an ergonomically sound vehicle

*Ergonomics in the Automotive Design Process* Vivek Dattatray Bhise, 2024 Automotive design continues to evolve at a rapid pace As electric cars become ever more commonplace on the roads to the advent of the driverless vehicle understanding the ergonomics behind automotive engineering becomes ever more paramount Vehicle attributes must be considered early during the new vehicle development program by coordinated work of multi disciplinary teams to begin creating vehicle specifications and development of vehicle attribute requirements In Ergonomics in the Automotive Design Process Advanced Topics Measurements Modeling and Research experienced automotive engineer Vivek D Bhise investigates the advanced procedures and considerations to develop an ergonomic vehicle This book covers the entire range of ergonomics issues involved in designing a car or truck and offers evaluation techniques to avoid costly mistakes and assure high customer satisfaction This book delves into driver performance electric vehicles EVs interfaces new technology and costs and benefits plus a lot more Evaluation and measurement are covered in essential detail and the title has been brought right up to date with chapters on engineering design during automotive product development vehicle evaluation verification and validation and product liability litigations and ergonomic considerations This book is designed to allow the reader to develop a more comprehensive knowledge of issues facing the developers of automotive products and delivers methods to manage communication coordination and integration processes Delivering a toolkit that will allow you to implement systems engineering to minimize the risks of delays and cost overruns it delivers a framework that will allow you to create the right product for your customers The reader will therefore develop a knowledge of future in vehicle devices that are easy to program and use safe cheap to

manufacture and assemble and eco friendly This title is an ideal read for students and practitioners of ergonomics human factors automotive design civil engineering product design work design and mechanical engineering This title is an ideal read for students and practitioners of ergonomics human factors automotive design civil engineering product design work design and mechanical engineering

**Ergonomics in the Automotive Design Process** Vivek D. Bhise, 2024-06-01 Automotive design continues to evolve at a rapid pace As electric cars become ever more commonplace on the roads to the advent of the driverless vehicle understanding the ergonomics behind automotive engineering becomes ever more paramount Vehicle attributes must be considered early during the new vehicle development program by coordinated work of multi disciplinary teams to begin creating vehicle specifications and development of vehicle attribute requirements In Ergonomics in the Automotive Design Process Advanced Topics Measurements Modeling and Research experienced automotive engineer Vivek D Bhise investigates the advanced procedures and considerations to develop an ergonomic vehicle This book covers the entire range of ergonomics issues involved in designing a car or truck and offers evaluation techniques to avoid costly mistakes and assure high customer satisfaction This book delves into driver performance electric vehicles EVs interfaces new technology and costs and benefits plus a lot more Evaluation and measurement are covered in essential detail and the title has been brought right up to date with chapters on engineering design during automotive product development vehicle evaluation verification and validation and product liability litigations and ergonomic considerations This book is designed to allow the reader to develop a more comprehensive knowledge of issues facing the developers of automotive products and delivers methods to manage communication coordination and integration processes Delivering a toolkit that will allow you to implement systems engineering to minimize the risks of delays and cost overruns it delivers a framework that will allow you to create the right product for your customers The reader will therefore develop a knowledge of future in vehicle devices that are easy to program and use safe cheap to manufacture and assemble and eco friendly This title is an ideal read for students and practitioners of ergonomics human factors automotive design civil engineering product design work design and mechanical engineering This title is an ideal read for students and practitioners of ergonomics human factors automotive design civil engineering product design work design and mechanical engineering

An Introduction to Modern Vehicle Design Julian Happian-Smith, 2001 An Introduction to Modern Vehicle Design provides a thorough introduction to the many aspects of passenger car design in one volume Starting with basic principles the author builds up analysis procedures for all major aspects of vehicle and component design Subjects of current interest to the motor industry such as failure prevention designing with modern materials ergonomics and control systems are covered in detail and the author concludes with a discussion on the future trends in automobile design With contributions from both academics lecturing in motor vehicle engineering and those working in the industry An Introduction to Modern Vehicle Design provides students with an excellent overview and background in the design of vehicles before they move on to specialised areas Filling the niche between the

more descriptive low level books and books which focus on specific areas of the design process this unique volume is essential for all students of automotive engineering

**Ergonomics in the Automotive Design Process** Vivek D. Bhise, 2024 In *Ergonomics in the Automotive Design Process Advanced Topics Measurements Modelling and Research* experienced automotive engineer Vivek D Bhise investigates the advanced procedures and considerations to develop an ergonomic vehicle

*Designing Complex Products with Systems Engineering Processes and Techniques* Vivek D. Bhise, 2023-02-16 Completely revised including six new chapters this new edition presents a more comprehensive knowledge of issues facing developers of complex products and process management It includes more tools for implementing a Systems Engineering approach to minimize the risks of delays and cost overruns and helps create the right product for its customers

*Designing Complex Products with Systems Engineering Processes and Techniques* Second Edition highlights how to increase customer satisfaction quality safety and usability to meet program timings and budgets using a Systems Engineering approach It provides decision making considerations and models for creating sustainable product design and describes many techniques and tools used in product development and the product life cycle orientation The book also offers techniques used in Design for Manufacturing Design for Assembly and product evaluation methods for verification and validation testing Many new examples case studies six new chapters and updated program and data charts held on our website are offered The book targets practicing engineers engineering management personnel product designers product planners product and program managers in all industrialized and developing countries In addition the book is also useful to undergraduate graduate students and faculty in engineering product design and product project and program management

**Automotive Ergonomics** Heiner Bubb, Klaus Bengler, Rainer E. Grünen, Mark Vollrath, 2021-10-19 Ergonomics teaches how to design technology in such a way that it is optimally adapted to the needs wishes and characteristics of the user In this context the concept of the human machine system has become established In a systematic way and with a detailed view of the complicated technical and perceptual psychological and methodological connections this book explains the basics of automotive ergonomics with numerous examples The application is shown in examples such as package design of displays and control elements of environmental ergonomics such as lighting sound vibrations climate and smell The design of driver assistance systems from an ergonomic perspective is also a central topic The book is rounded off by methods of ergonomic vehicle development the use of mock ups driving simulators and tests in real vehicles and prototypes For the first time those responsible in the automotive industry and in the field of relevant research are provided with a specialized systematic work that provides the ergonomic findings in the design of today s automobiles This provides planners and designers of today s automobiles with concrete information for ergonomic product development enabling them to keep an eye on decisive requirements and subsequent customer acceptance This book is a translation of the original German 1st edition *Automobilergonomie* by Heiner Bubb Klaus Bengler Rainer E Grünen Mark Vollrath published by Springer Fachmedien

Wiesbaden GmbH part of Springer Nature in 2015 The translation was done with the help of artificial intelligence machine translation by the service DeepL.com A subsequent human revision was done primarily in terms of content so that the book will read stylistically differently from a conventional translation Springer Nature works continuously to further the development of tools for the production of books and on the related technologies to support the authors Automotive Product Development Vivek D. Bhise, 2017-05-08 This book is about how to develop future automotive products by applying the latest methodologies based on a systems engineering approach and by taking into account many issues facing the auto industry such as meeting government safety emissions and fuel economy regulations incorporating advances in new technology applications in structural materials power trains vehicle lighting systems displays and telematics and satisfying the very demanding customer It is financially disastrous for any automotive company to create a vehicle that very few people want To design an automotive product that will be successful in the marketplace requires carefully orchestrated teamwork of experts from many disciplines substantial amount of resources and application of proven techniques at the right time during the product development process Automotive Product Development A Systems Engineering Implementation is intended for company management personnel and graduate students in engineering business management and other disciplines associated with the development of automotive and other complex products *Digital Human Modeling and Applications in Health, Safety, Ergonomics and Risk Management. Anthropometry, Human Behavior, and Communication* Vincent G. Duffy, 2022-06-16 This two volume set LNCS 1319 and 13320 constitutes the thoroughly refereed proceedings of the 13th International Conference on Digital Human Modeling and Applications in Health Safety Ergonomics and Risk Management DHM 2022 which was held virtually as part of the 24rd HCI International Conference HCII 2022 in June July 2022 The total of 1271 papers and 275 poster papers included in the 39 HCII 2022 proceedings volumes was carefully reviewed and selected from 5487 submissions DHM 2022 includes a total of 56 papers The first volume focuses on topics related to ergonomic design anthropometry and human modeling as well as collaboration communication and human behavior The second volume focuses on topics related to task analysis quality and safety in healthcare as well as occupational health and operations management and Digital Human Modeling in interactive product and service design

**Man-Machine-Environment System Engineering** Shengzhao Long, Balbir S. Dhillon, Long Ye, 2024-09-28 From this book reader will learn the best research topics and the latest development trend in MMESE theory and application Man Machine Environment System Engineering MMESE is a scientific study on the design concepts and quantitative analysis of a complex giant system using physiology psychology system engineering computer science environment science management theory education and other related disciplines methods MMESE focuses mainly on the relationship and the optimum combination between Man Machine and Environment The three optimized goals of the MMESE study are safety efficiency and economy Researchers and professionals who study a human centered interdisciplinary subject crossing above disciplines

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Decision-Making in Energy Systems Vivek D. Bhise,2022-01-10 This is a comprehensive book on how to make complex decisions on energy systems problems involving different technologies environmental effects costs benefits risks and safety issues Using Industrial and Systems Engineering techniques for decision making in Energy Systems the book provides the background knowledge and methods to incorporate multiple criteria involved in solving energy system problems It offers methods examples and case studies illustrating applications Decision Making in Energy Systems discusses subjective as well as objective methods approaches and techniques taken from the systems and industrial engineering domain and puts them to use in solving energy systems problems It uses an integrated approach by including effects of all technical economic environmental and safety considerations as well as costs and risks The book is specially designed for practicing engineers from industrial systems engineering who work in energy systems engineering industries Aimed at graduate students researchers and managers involved in various energy generating distributing and consuming companies the book helps the reader to understand evaluate and decide on solutions to their energy related problems

Human Factors in Product Design W. Green,Patrick W. Jordan,1999-08-19 Manufacturers are becoming more aware of human factors in product design as a major competitive issue In many product areas manufacturers have reached a technology ceiling which simply means that it is increasingly difficult to get ahead of the competition in terms of for example functionality technical reliability or manufacturing costs As a consequence design has become a major battleground for manufacturers and usability is recognized as being a central tenet of good design This book provides a unique snapshot of current practice in human factors identifying methods and techniques that work well under tight constraints and providing case study evidence of their effectiveness The commercial implications of usability are discussed and special attention is paid to two key trends inclusive design and smart products Inclusive design is about meeting the needs of all users with one design which includes the elderly and the disabled Smart products are multi functional products with electronic interfaces containing a vast array of helpful functions Industrial designers and manufacturing executives will find this text enlightening

**Ergonomics for Improved Productivity** Mohammad Muzammil,Abid Ali Khan,Faisal Hasan,2021-03-23 p This highly informative and carefully presented book focuses on the fields of ergonomics human factors and discusses the future of the community vis vis health problems productivity aging etc Ergonomic intercession must be seen in light of its effect on productivity because ergonomic solutions will improve productivity as the reduction of environmental stressors awkward postures and efforts lead to a reduction in task execution time The book provides

promising evidence that the field of ergonomics continues to thrive and develop deeper insights into how work environments products and systems can be developed to meet needs demands and limitations of humans and how they can support productivity improvements Some of the themes covered are anthropometry and workplace design biomechanics and modelling in ergonomics cognitive and environmental ergonomics ergonomic intervention and productivity ergonomics in transport mining agriculture and forestry health systems work physiology and sports ergonomics etc This book is beneficial to academicians policymakers and the industry alike

**Proceedings of the 10th International Ergonomics Conference** Jasna Leder Horina,Dorotea Kovačević,Tanja Jurčević Lulić,Martina Lovrenić-Jugović,2025-05-28 This book presents the proceedings of the 10th International Ergonomics Conference ERGONOMICS 2024 held in Zagreb Croatia on December 5 6 2024 By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics health care management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and well being of individuals The book includes papers from researchers and practitioners scientists and physicians institutional leaders managers and policymakers that contribute to constructing the human factors and ergonomics approach across a variety of methodologies domains and productive sectors

*Proceedings of the 20th Congress of the International Ergonomics Association (IEA 2018)* Sebastiano Bagnara,Riccardo Tartaglia,Sara Albolino,Thomas Alexander,Yushi Fujita,2018-08-04 This book presents the proceedings of the 20th Congress of the International Ergonomics Association IEA 2018 held on August 26 30 2018 in Florence Italy By highlighting the latest theories and models as well as cutting edge technologies and applications and by combining findings from a range of disciplines including engineering design robotics healthcare management computer science human biology and behavioral science it provides researchers and practitioners alike with a comprehensive timely guide on human factors and ergonomics It also offers an excellent source of innovative ideas to stimulate future discussions and developments aimed at applying knowledge and techniques to optimize system performance while at the same time promoting the health safety and wellbeing of individuals The proceedings include papers from researchers and practitioners scientists and physicians institutional leaders managers and policy makers that contribute to constructing the Human Factors and Ergonomics approach across a variety of methodologies domains and productive sectors This volume includes papers addressing the following topics Transport Ergonomics and Human Factors TEHF and Aerospace Human Factors and Ergonomics

**On the Practice of Safety** Fred A. Manuele,2013-05-28 Explains how to implement the best safety practices and why they work Reviews from the Third Edition An excellent piece of work Safety Health Practitioner SHP A useful fountain of knowledge Quality World This is a book to be read now for its educational value

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***Recent Developments in Automotive Safety Technology*** Daniel J Holt, 2004-09-23 Automotive engineers have been working to improve vehicle safety ever since the first car rolled down some pathway well over 100 years ago Today there are many new technologies being developed that will improve the safety of future vehicles Featuring the 69 best safety related SAE technical papers of 2003 this book provides the most comprehensive information available on current and emerging developments in automotive safety It gives readers a feel for the direction engineers are taking to reduce deaths and injuries of vehicle occupants as well as pedestrians All of the papers selected for this book meet the criteria for inclusion in SAE Transactions the definitive collection of the year's best technical research in automotive engineering technology

***Advances in Usability and User Experience*** Tareq Ahram, Christianne Falcão, 2017-06-22 This book focuses on emerging issues in usability interface design human computer interaction and user experience with a special emphasis on the research aimed at understanding human interaction and usability issues with products services and systems for improved experience It covers modeling as well as innovative design concepts with a special emphasis to user centered design and design for special populations particularly the elderly Virtual reality digital environments heuristic evaluation and feedback of devices interfaces visual and haptic are also among the topics covered in this book Based on the AHFE 2017 Conference on Usability User Experience held on July 17-21 2017 in Los Angeles California USA the book describes new findings research methods and user centered evaluation approaches

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