

Bernd Klein

Leichtbau- Konstruktion

Berechnungsgrundlagen und Gestaltung

10. Auflage



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Leichtbau Konstruktion

Lothar Kroll



Leichtbau Konstruktion:

Leichtbau Johannes Wiedemann, 2006-12-07 Das Referenzwerk einer Generation in der Konstruktion und Ausbildung an Hochschulen Jetzt macht der Reprint das bedeutende immer noch aktuelle Werk wieder verfügbar Das Buch beinhaltet beide erschienenen Einzelbände In Teil 1 u a Prinzipien und Strukturen des Leichtbaus d nnwandige isotrope Fl chen und Hautfelder d nnwandige Profilst be anisotrope Fl chen Sandwichfl chen In Teil 2 u a Kriterien und Verfahren des Entwerfens und Optimierens Auswahl und beanspruchungsgerechte Gestaltung von Bauteilen und Strukturen basierend auf aktuellen Bauweisen und Werkstoffen unter Gesichtspunkten von Zuverlässigkeit und Schadenstoleranz **Leichtbau-Konstruktion**

Bernd Klein, 2009-08-03 Dieses Lehr und bungsbuch umfasst die Grundlagen des konstruktiven Leichtbaus im Fahrzeug und Maschinenbau Dabei wurde besonderer Wert auf eine praxisorientierte Darstellung gelegt Es führt methodisch in die Arbeitstechniken und konstruktiven Fragestellungen ein Ziel des Buches ist es besondere Prinzipien und Analogien herauszustellen um dem Leser geeignete Problemlösungen an die Hand zu geben Auf Grund der vielen bungsbeispiele ist es sehr gut zum Selbststudium geeignet Viele Hinweise zur praktischen Umsetzung lassen es auch für den Ingenieur zu einem verlässlichen Ratgeber werden Die aktuelle Auflage enthält ein völlig neues Kapitel zur Strukturakustik *Mechanics of Classical Sandwich Structures* Andreas Öchsner, 2023-03-29 This book treats the mechanical behavior of one dimensional sandwich structures a typical concept in the context of lightweight design Such structures are composed of different constituent e g layers in order to achieve overall properties which are better than for a single component alone This book covers the basic mechanical load cases i e tension compression bending and shear Based on this knowledge different failure modes i e plastic yielding and global and local instabilities are investigated In addition an introduction to classic optimization problems i e the formulation of an objective function e g the weight of a structure and corresponding restrictions is included The consideration here is limited to one or two dimensional design spaces i e with a maximum of two design variables For such simple cases the minimum of the objective function can often be determined using analytical or graphical methods

Konstruktionstechnik und Leichtbau Alfred Wende, Berthold Knauer, 2022-02-07 Keine ausführliche Beschreibung für Konstruktionstechnik und Leichtbau verfügbar **Leichtbau-Konstruktion** Bernd Klein, 2011-09-30 Dieses Lehr und bungsbuch umfasst die Grundlagen des konstruktiven Leichtbaus im Fahrzeug und Maschinenbau Dabei wurde besonderer Wert auf eine praxisorientierte Darstellung gelegt Es führt methodisch in die Arbeitstechniken und konstruktiven Fragestellungen ein Ziel des Buches ist es besondere Prinzipien und Analogien herauszustellen um dem Leser geeignete Problemlösungen an die Hand zu geben Auf Grund der vielen bungsbeispiele ist es sehr gut zum Selbststudium geeignet Viele Hinweise zur praktischen Umsetzung lassen es auch für den Ingenieur zu einem verlässlichen Ratgeber werden Für die 9. Auflage wurden einige Kapitel um praxisrelevante Bezüge ergänzt neue leichtbauorientierte Herstellverfahren werden erwähnt Werkstoffkennwerte wurden aktualisiert sowie Beispiele bearbeitet bzw ergänzt **Methodik und Richtlinien für die**

Konstruktion von laseradditiv gefertigten Leichtbaustrukturen Jannis Kranz, 2017-07-07 Die laseradditive Fertigung bietet durch ihre hohe geometrische Gestaltungsfreiheit insbesondere für Leichtbauanwendungen in der Luftfahrt großes Potential Vor diesem Hintergrund erfolgt im Rahmen der Arbeit die Entwicklung von Konstruktionsrichtlinien für die verfahrensgerechte Bauteilkonstruktion und ihre Übertragung auf eine Methodik für die Konstruktion mittels laseradditiver Fertigung hergestellter Leichtbaustrukturen Das Vorgehen wird anhand von zwei Bauteilen aus der Luftfahrtindustrie erarbeitet und demonstriert

Multifunctional Lightweight Structures Lothar Kroll, 2023-03-28 This book presents key research findings on the combination of different technologies that promise to be particularly sustainable and broadly impactful in their application The findings were compiled during the course of the first funding period for the MERGE Cluster of Excellence New methods potential solutions and exemplary pilot applications take center stage as the text explores the next generation of functional integration via lightweight structures The underlying manufacturing processes are based on textile polymer and metal processing techniques all of which are suitable for large batch production flexibility and reproducibility

Leichtbaukonzepte anhand einfacher Strukturelemente Andreas Öchsner, 2019-02-19 In der Ingenieurpraxis werden in der Regel recht komplexe Systeme auch unter der Verwendung kommerzieller Programmpakete optimiert Zur Einführung der unterschiedlichen Leichtbaukonzepte im Rahmen eines Hochschulingenieurstudiums kann jedoch auch zuerst auf einfache Strukturelemente die im Rahmen der technischen Mechanik vorgestellt werden zur rückgegriffen werden Die einfachsten Elemente sind hierbei Stäbe und Balken die neben Federn den eindimensionalen Strukturelementen zugerechnet werden Anhand dieser Elemente können recht anschaulich Fragestellungen zur Werkstoffauswahl und der geometrischen Gestaltung und Optimierung von lasttragenden Strukturen diskutiert werden Somit bietet dieses Lehrbuch eine einfache und umfassende Anleitung zur Anwendung der unterschiedlichen Leichtbaukonzepte wobei der Schwerpunkt auf dem Stoff- und Formleichtbau beziehungsweise der Kombination dieser beiden Konzepte liegt Das Buch wendet sich an Studierende der Ingenieurwissenschaften

Stoff- und Formleichtbau Andreas Öchsner, 2025-09-27 Dieses Lehrbuch stellt die unterschiedlichen Leichtbaukonzepte anhand einfacher eindimensionaler Strukturen in sehr verständlicher Weise dar und ermöglicht einen leichten Einstieg in das Thema Es werden nachvollziehbare Informationen und Hinweise zur Werkstoffauswahl und geometrischen Gestaltung von Bauteilen gegeben Studierende werden zudem durch eine Vielzahl an Übungsaufgaben und deren ausführlichen Lösungen unterstützt Neben allgemeinen Korrekturen und Ergänzungen wurde die vorliegende dritte Auflage vor allem durch zusätzliche Übungsaufgaben erweitert

Leichtbaukonzepte Andreas Öchsner, 2018-01-15 Andreas Öchsner bietet eine einfache Einführung in die unterschiedlichen Konzepte des Leichtbaus wobei der Schwerpunkt auf Konzepten der Strukturmechanik und Festigkeitslehre liegt Neben den theoretischen Grundlagen stellt der Autor auch Fragestellungen zu praktischen Anwendungsgebieten vor Das Leichtbaupotenzial von Konstruktionen spielt in den verschiedenen Bereichen des Transportwesens zum Beispiel im Automobil und Flugzeugbau eine entscheidende Rolle

da die Betriebskosten zu einem wesentlichen Teil durch das Gewicht einer Struktur bestimmt werden Insbesondere ist für einen Konstrukteur das Verhältnis von Betriebslast zum Eigengewicht eine wichtige Kennzahl zur Beurteilung der Leichtbaugüte einer Konstruktion

Leichtbau Hans Peter Degischer, Sigrid Lüftl, 2012-02-28 Offering engineers and material scientists an explanation of the complex interrelations between numerous lightweight construction methods this book is didactically structured to cover the spectrum from determining requirements to calculations and optimization via component developments and choice of materials right up to design and manufacturing techniques Examples from transportation and racing illustrate the methods and interdependencies between the choice of material and design

Bibliographie der Veröffentlichungen über den Leichtbau und seine Randgebiete im deutschen und ausländischen Schrifttum aus den Jahren 1955 bis 1959 / Bibliography of Publications on Light Weight Constructions and Related Fields in German and Foreign Literature from 1955 to 1959 Hermann Winter, 2013-03-08 Die beifällige Kritik mit welcher die Bibliographie der Veröffentlichungen über den Leichtbau und seine Randgebiete im deutschen und ausländischen Schrifttum aus den Jahren 1940 bis 1954 aufgenommen wurde ermutigte dazu das Werk fortzusetzen Zahlreiche Kritiker hatten unmittelbar eine solche Fortsetzung gefordert Für manche Anregungen die in den Buchbesprechungen enthalten sind möchte ich den Beteiligten meinen aufrichtigen Dank abstatten Durch diese Anregungen ist die vorliegende Fortsetzung gegenüber der eingangs erwähnten Bibliographie in manchen Punkten verbessert worden

Technologiefusion für multifunktionale Leichtbaustrukturen Lothar Kroll, 2019-04-08 In diesem Buch werden wesentliche Forschungsergebnisse für neue Technologiekombinationen die im Rahmen der ersten Förderperiode des Exzellenzclusters MERGE erarbeitet wurden und sich durch besondere Nachhaltigkeit und Breitenwirkung auszeichnen vorgestellt Im Vordergrund stehen neue Lösungsansätze und beispielgebende Pilotanwendungen für die nächste Generation von funktionsintegrierenden Leichtbaustrukturen Die zugrundeliegenden Produktionsverfahren basieren auf Textil Kunststoff und Metallverarbeitungsprozessen die allesamt durch Großserientauglichkeit Flexibilität und Reproduzierbarkeit gekennzeichnet sind

Lightweight Design Andreas Öchsner, 2025-09-08 This textbook presents the various lightweight design concepts using simple one dimensional structures in a very understandable way and provides an easy introduction to the subject It provides comprehensible information and advice on material selection and the geometric design of components Students are also supported by a large number of exercises and their detailed solutions It is the translation of the current third German edition

Untersuchungen zur Lebensdauer und Zuverlässigkeit von Elektrofahrzeugen Marco Hochgräf, 2015 In dieser vorliegenden Dissertation wird auf Basis eines BMBF Projektes mit mehreren universitären und industriellen Partnern ein neuartiges einachsiges Elektrofahrzeug entwickelt Um frühzeitig die mechanische Funktionalität und die Zuverlässigkeit kritischer Baugruppen sicherzustellen werden sowohl theoretische als auch praktische Lebensdauer bzw Zuverlässigkeitsuntersuchungen innerhalb verschiedener Präferenzszenarien durchgeführt Aufgrund der Berechnungen zur Mechanik

eines einachsigen Fahrzeuges entstehen neue mathematische Zusammenhänge die dazu dienen bereits in der konstruktiven Phase die unterschiedlichen Positionierungen des Gesamtfahrzeugs unter Berücksichtigung verschiedener Abhängigkeiten von Subsystemen umzusetzen Weiterhin wird die Zielsetzung verfolgt einen Entwicklungsprozess für Referenzfahrzeuge zu erarbeiten und bereitzustellen der einerseits die projektspezifische Vorgehensweise zeitlich beschreibt und andererseits die verwendeten Methoden bzw Modelle innerhalb der Zeitspanne strukturiert Auf dieser Grundlage besteht ein Leitfaden welcher der Beschreibung der frühen Entwicklung und des Aufbaus eines einachsigen Fahrzeuges dienen kann

Production at the Leading Edge of Technology Thomas Bauernhansl, Alexander Verl, Mathias Liewald, Hans-Christian Möhring, 2023-11-17 The German Academic Association for Production Technology WGP annually invites researchers coming from its institutes and from industry to contribute peer reviewed papers in the field of production technology This congress proceedings provides recent research results and findings on leading edge manufacturing processes Main aim of this scientific congress is to push forward existing borders in production and to provide novel solutions of Production at the Leading Edge of Manufacturing Technology The subtitle Technology Based Sustainable Production for Circular Economy of this year's congress emphasizes challenges for global productions in the light of climate change and resource scarcity Different sessions were held on the topics Environmentally neutral production e.g energy and material efficiency Resilient Value Creation Systems Biointelligence Digitization as an Enabler for Sustainable Production Production Technologies for a Circular Economy **Technologies for economical and functional lightweight design** Klaus Dröder, Thomas Vietor, 2019-03-25 This book comprises the proceedings of the conference Faszination Hybrider Leichtbau 2018 which took place in Wolfsburg The conference focused on new methods and technologies for the development and production of multifunctional and hybrid lightweight solutions in large scale vehicle manufacturing Further it promoted the exchange of insights and lessons learned between experts from industry and academia Lightweight design and construction are key technologies for the development of sustainable and resource efficient mobility concepts Material hybrid structures which combine the advantages of different materials e.g fiber reinforced plastics and metals have a high potential for reducing weight while simultaneously expanding component functionality However the efficient use of functional integrated hybrid structures in vehicle construction requires innovations and constant developments in vehicle and production technology There is a great demand for affordable lightweight construction in mass production that takes into account the increasing requirements in terms of variant diversity safety and quality particularly with regards to new methods and technologies

Environmental Assessment of Lightweight Electric Vehicles Patricia Egede, 2016-07-25 This monograph addresses the challenge of the environmental assessment of lightweight electric vehicles It poses the question whether the use of lightweight materials in electric vehicles can reduce the vehicles environmental impact and compares the environmental performance of a lightweight electric vehicle LEV to other types of vehicles The topical approach focuses on methods from

life cycle assessment LCA and the book concludes with a comprehensive concept on the environmental assessment of LEVs. The target audience primarily comprises LCA practitioners from research institutes and industry but it may also be beneficial for graduate students specializing in the field of environmental assessment.

Design Methods for Performance and Sustainability S. Culley, 2001-10-10 New solutions to sustainability challenges. Design Methods for Performance and Sustainability is a collection of papers presented at the 13th International Conference on Engineering Design in Glasgow, Scotland. One of four volumes, this book highlights the latest advances in design methodologies focused on sustainability of process and product. As sustainability becomes an increasingly central part of every project, the insights provided here will help engineers and design professionals address current challenges without sacrificing quality or longevity. Founded in 1981 by Workshop Design Konstruktion, this conference has grown to become one of the field's major exchanges; these papers represent the work of leading design teams from across the globe.

Finite Elements in Structural Analysis Horst Werkle, 2021-05-27 The book introduces the basic concepts of the finite element method in the static and dynamic analysis of beam, plate, shell, and solid structures, discussing how the method works, the characteristics of a finite element approximation, and how to avoid the pitfalls of finite element modeling. Presenting the finite element theory as simply as possible, the book allows readers to gain the knowledge required when applying powerful FEA software tools. Further, it describes modeling procedures, especially for reinforced concrete structures, as well as structural dynamics methods with a particular focus on the seismic analysis of buildings and explores the modeling of dynamic systems. Featuring numerous illustrative examples, the book allows readers to easily grasp the fundamentals of the finite element theory and to apply the finite element method proficiently.

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