

Technische Mechanik 1

Formelsammlung



TECHNISCHE
UNIVERSITÄT
DARMSTADT

Fachbereich Maschinenbau, Fachgebiet für Strömungsdynamik (FDY)
Prof. Dr.-Ing. Martin Oberlack, Markus Geisenhofer, M.Sc., Thomas Utz, M.Sc.
6. Februar 2018

1 Trigonometrie



Winkelbeziehungen:

$$\sin(-\alpha) = -\sin(\alpha)$$

$$\cos(-\alpha) = \cos(\alpha)$$

$$\sin(\alpha) = \sin(\alpha + 2\pi)$$

$$\cos(\alpha) = \cos(\alpha + 2\pi)$$

$$\sin(\alpha) = \cos(\frac{\pi}{2} - \alpha)$$

$$\cos(\alpha) = \sin(\frac{\pi}{2} + \alpha)$$

$$\sin^2(\alpha) + \cos^2(\alpha) = 1$$

rad	0	$\frac{1}{2}\pi$	$\frac{1}{4}\pi$	$\frac{3}{4}\pi$	$\frac{1}{2}\pi$	π	2π
deg	0°	30°	45°	60°	90°	180°	360°
sin	0	$\frac{1}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{\sqrt{3}}{2}$	1	0	0
cos	1	$\frac{\sqrt{3}}{2}$	$\frac{\sqrt{2}}{2}$	$\frac{1}{2}$	0	-1	1
tan	0	$\frac{1}{\sqrt{3}}$	1	$\sqrt{3}$	$\pm\infty$	0	0

2 Schwerpunkte

Formeln sind für Koordinatenrichtung x gegeben, y und z analog.

Volumen	Fläche	Linie
$x_s = \frac{\sum x_i V_i}{\sum V_i}$ $= \frac{1}{V} \int x dV$	$x_s = \frac{\sum x_i A_i}{\sum A_i}$ $= \frac{1}{A} \int x dA$	$x_s = \frac{\sum x_i l_i}{\sum l_i}$ $= \frac{1}{l} \int x dl$

Massemittelpunkt:

$$x_s = \frac{\sum x_i m_i}{\sum m_i}$$

$$= \frac{\int x \rho dV}{\int \rho dV}$$

Flächen und Volumina:

Kreis: $A = \pi r^2$, $U = 2\pi r$

Kugel: $V = \frac{4}{3}\pi r^3$

Zylinder:

$$V = \pi r^2 h$$

Kegel:

$$V = \frac{1}{3}\pi r^2 h$$

Fläche

Schwerpunktskoordinaten



$$A = \frac{1}{2}ah$$

$$x_s = \frac{1}{3}a$$

$$y_s = \frac{1}{3}h$$



$$A = \frac{1}{2}[(x_2 - x_1)(y_3 - y_1) - (x_3 - x_1)(y_2 - y_1)]$$

$$x_s = \frac{1}{3}(x_1 + x_2 + x_3)$$

$$y_s = \frac{1}{3}(y_1 + y_2 + y_3)$$



$$A = ah$$

S liegt im Schnittpunkt der Diagonalen



$$A = \frac{1}{2}(a + b)h$$

S liegt auf der Seitenhalbierenden

$$y_s = \frac{1}{3} \frac{a^2 + ab + b^2}{a + b}$$



$$A = \frac{1}{2} \alpha r^2$$

$$x_s = \frac{2}{3} r \frac{\sin \alpha}{\alpha}$$



$$A = \frac{1}{2} r^2 \alpha$$

$$x_s = \frac{4}{3} r \frac{\sin^3 \alpha}{\alpha^3}$$



$$A = \frac{1}{2} r^2 (2\alpha - \sin 2\alpha)$$

$$x_s = \frac{4r}{3\alpha} \left(\frac{\sin^3 \alpha}{\alpha} - \frac{3}{4} \sin 2\alpha \right)$$



quadratische Parabel

$$A = \frac{1}{3}ab$$

$$x_s = \frac{1}{3}a$$

$$y_s = \frac{1}{3}b$$

Technische Mechanik

Alfred Böge, Wolfgang Böge

A red circular graphic with a gradient, appearing as a stylized arrow or a partial circle, located to the right of the authors' names.

Technische Mechanik:

Technische Mechanik Alfred Böge, Wolfgang Böge, 2017-07-18 Durch jahrelang erprobte Unterrichtspraxis an Technikerschulen Fachoberschulen und Fachgymnasien und immer wieder didaktisch und methodisch verbessert unterst tzt dieses Standardlehrwerk mit aussagekr ftigen Bildern und verst ndlichem Text Lehrende und Lernende an Technikerschulen In der aktuellen Auflage wurden die Abschnitte Str mung in Rohrleitungen sowie Fl chenmomente Widerstandsmomente stark erweitert Das Freimachen von Bauteilen wurde neu aufgebaut *Technische Mechanik* Jürgen Dankert, Helga Dankert, 2013-03-20 Dieses Lehrbuch zur Technischen Mechanik behandelt den gesamten Stoffumfang der Grundlagenausbildung der Kurse Statik Festigkeitslehre Kinematik Kinetik Es demonstriert an zahlreichen Beispielen wie zur L sung von Aufgaben die Probleme analysiert und mathematische Beziehungen aufgestellt werden berall dort wo der Einsatz von Computern praktische Hilfestellung bei der L sung ist werden entsprechende Hinweise gegeben Unter www TM aktuell de finden sich zus tzliche bungsaufgaben sowie inhaltliche Erg nzungen und Vertiefungen Die im Buch aufgef hrten Beispiele werden dort um Animationen und Softwaretools erg nzt In der aktuellen Auflage wurden die Bez ge zum Internet durch ber 100 QR Codes weiter gest rkt Zuk nftig soll das ebook deutlich im Fokus der Entwicklung stehen *Technische Mechanik. Festigkeitslehre* Hans Albert Richard, Manuela Sander, 2006 Verformbare K rper Belastungen von realen Bauteilen Spannungen Verzerrungen und Stoffgesetz W rmedehnungen und W rmespannungen statisch bestimmte und unbestimmte Stabsysteme Biegung von Balken Schnittgr en und ihre Wirkungen Normalspannungen Fl chentr gheitsmomente Balkenverformungen Schiefe Biegung Schubspannungen Torsion von Strukturen Ebener Spannungs und Verzerrungszustand Hauptnormal und Hauptschubspannungen Festigkeitshypothesen Stabilit tsprobleme Festigkeits und Stabilit tsnachweise

Technische Mechanik für Dummies Wilhelm Kulisch, 2015-02-26 Um die Technische Mechanik kommen Sie ob Sie nun wollen oder nicht im Ingenieurstudium nicht herum Aber keine Angst Wilhelm Kulisch erkl rt Ihnen in diesem leicht verst ndlichen Buch was Sie ber Kinetik Kinematik Statik Festigkeitslehre und Kontinuumsmechanik wissen sollten Auch die Dynamik mit ihren Translations und Rotationsbewegungen kommt nicht zu kurz Au erdem erkl rt Ihnen der Autor zu Beginn die mathematischen Grundlagen die Sie kennen sollten um das Thema zu beherrschen So ist dieses Buch eine gut verst ndliche Hilfe ganz gleich ob Sie sich erstmals mit der Technischen Mechanik besch ftigen oder altes Wissen wieder auffrischen wollen *Zeitschrift für Angewandte Mathematik und Mechanik. Volume 64, Number 10* H. Heinrich, G. Schmid, 2022-03-21 No detailed description available for Z ANGEW MATH MECH BD 64 10 ZAMM E BOOK *The History of the Theory of Structures* Karl-Eugen Kurrer, 2018-06-19 Zehn Jahre nach der 1 Auflage in englischer Sprache legt der Autor sein Buch The History of the Theory of Structures in wesentlich erweiterter Form vor nunmehr mit dem Untertitel Searching for Equilibrium Mit dem vorliegenden Buch l dt der Verfasser seine Leser zur Suche nach dem Gleichgewicht von Tragwerken auf Zeitreisen ein Die Zeitreisen setzen mit der Entstehung der Statik und Festigkeitslehre eines Leonardo und

Galilei ein und erreichen ihren ersten Höhepunkt mit den baustatischen Theorien über den Balken Erddruck und das Gewicht von Coulomb am Ende des 18. Jahrhunderts. Im folgenden Jahrhundert formiert sich die Baustatik mit Navier, Culmann, Maxwell, Rankine, Mohr, Castigliano und Müller-Breslau zu einer technikwissenschaftlichen Grundlagendisziplin, die im 20. Jahrhundert in Gestalt der modernen Strukturmechanik bei der Herausbildung der konstruktiven Sprache des Stahl, Stahlbeton, Flugzeug, Automobil und des Schiffbaus eine tragende Rolle spielt. Dabei setzt der Autor den inhaltlichen Schwerpunkt auf die Formierung und Entwicklung moderner numerischer Ingenieurmethoden wie der Finite-Elemente-Methode und beschreibt ihre disziplinäre Integration in der Computational Mechanics. Kurze durch historische Skizzen unterstützte Einblicke in gängige Berechnungsverfahren erleichtern den Zugang zur Geschichte der Strukturmechanik und Erddrucktheorie vom heutigen Stand der Ingenieurpraxis und stellen einen auch einen wichtigen Beitrag zur Ingenieurpädagogik dar. Dem Autor gelingt es, die Unterschiedlichkeit der Akteure hinsichtlich ihres technisch-wissenschaftlichen Profils und ihrer Persönlichkeit plastisch zu schildern und das Verständnis für den gesellschaftlichen Kontext zu erzeugen. So werden in 260 Kurzbiografien die subjektive Dimension der Baustatik und der Strukturmechanik von der frühen Neuzeit bis heute entfaltet. Dabei werden die wesentlichen Beiträge der Protagonisten der Baustatik besprochen und in die nachfolgende Bibliografie integriert. Berücksichtigt wurden nicht nur Bauingenieure und Architekten, sondern auch Mathematiker, Physiker, Maschinenbauer sowie Flugzeug- und Schiffbauer. Neben den bekannten Persönlichkeiten der Baustatik wie Coulomb, Culmann, Maxwell, Mohr, Müller-Breslau, Navier, Rankine, Saint-Venant, Timoshenko und Westergaard wurden u.a. auch G. Green, A. N. Krylov, G. Li, A. J. S. Pippard, W. Prager, H. A. Schade, A. W. Skempton, C. A. Truesdell, J. A. L. Waddell und H. Wagner berücksichtigt. Den Wegbereitern der Moderne in der Baustatik J. H. Argyris, R. W. Clough, Th. v. Kármán, M. J. Turner und O. C. Zienkiewicz wurden umfangreiche Biografien gewidmet. Eine ca. 4500 Titel umfassende Bibliografie rundet das Werk ab. Neue Inhalte der 2. Auflage sind Erddrucktheorie, Traglastverfahren, historische Lehrbuchanalyse, Stahlbrückenbau, Leichtbau, Platten und Schalentheorie, Greensche Funktion, Computerstatik, FEM, Computergestützte Graphostatik und Historische Technikwissenschaft. Gegenüber der 1. englischen Ausgabe wurde der Seitenumfang um 50 % auf nunmehr etwas über 1200 Druckseiten gesteigert. Das vorliegende Buch ist die erste zusammenfassende historische Gesamtdarstellung der Baustatik vom 16. Jahrhundert bis heute über die Reihe *edition Bautechnikgeschichte*. Mit erstaunlicher Dynamik hat sich die Bautechnikgeschichte in den vergangenen Jahrzehnten zu einer höchst lebendigen, international vernetzten und viel beachteten eigenständigen Disziplin entwickelt. Auch wenn die nationalen Forschungszugänge unterschiedliche Akzente setzen, eint sie doch das Bewusstsein, dass gerade die inhaltliche und methodische Vielfalt und das damit verbundene synthetische Potenzial die Stärken des neuen Forschungsfeldes ausmachen. Bautechnikgeschichte erschließt neue Formen des Verstehens von Bauen zwischen Ingenieurwesen und Architektur, zwischen Bau und Kunst, Technik und Wissenschaftsgeschichte. Mit der *edition Bautechnikgeschichte* erhält die neue Disziplin erstmals einen Ort für die Publikation.

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