

Numerieke Analyse Continuüm

1D diffusievergelijking

$$\frac{d}{dx} \left(c \frac{du}{dx} \right) + f = 0$$

Oplossen

$$\frac{d^2 u}{dx^2} = -\frac{f}{c}$$

$$\frac{du}{dx} = -\frac{f}{c}x + C_1$$

$$u = -\frac{f}{2c}x^2 + C_1x + C_2$$

Randvoorwaarden invullen

1) Essentiële randvoorwaarde

$$u = U$$

2) Natuurlijke randvoorwaarde

$$c \frac{du}{dx} = P$$

Eindige Elementen Methode

1) Differentiaal vergelijking $\rightarrow$ Integraalvergelijking (via de gewogen residuen methode)

$$\int_a^b w(x) g(x) dx = 0 \quad \text{for all } w$$

$$\int_a^b w(x) \left(\frac{d}{dx} \left(c \frac{du}{dx} \right) + f \right) dx = 0$$

2) Partieel Integreren

Gebruik regel: $\int f(x)g'(x) dx = f(x) \cdot g(x) - \int g(x) \cdot f'(x) dx$

$$\int_a^b \frac{dw}{dx} \left(c \frac{du}{dx} \right) dx = w c \frac{du}{dx} \Big|_a^b + \int_a^b w f dx$$

In de tweede term kan de natuurlijke randvoorwaarde ingevuld worden:

$$w \left(c \frac{du}{dx} \right) \Big|_a^b = -w(a) \left(c \frac{du}{dx} \right) \Big|_{x=a} + w(b) \left(c \frac{du}{dx} \right) \Big|_{x=b} \Rightarrow \int_a^b \frac{dw}{dx} c \frac{du}{dx} dx = \int_a^b w f dx + B$$

3) Discretizeren

De waarden van u worden in een discreet aantal knooppunten berekend, daartussen worden de waarden berekend door interpolatie $\rightarrow$ met n punten is oplossing te benaderen met polynoom van orde $n-1$:

$$u_h(x) = a_0 + a_1x + a_2x^2 + \dots + a_{n-1}x^{n-1}$$

Numerieke Analyse A1

Achim Pothmann



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Numerieke analyse a 1 J. A. Zaat, 1976 Die strukturierte Analyse Markovscher Modelle Peter Buchholz, 2013-03-12
Die Ausdehnungslehre von 1844 und die geometrische Analyse Hermann Grassmann, 1894 *Numerieke wiskunde*
Evert M. Bruins, 1951 Elemente der angewandten Elektronik Erwin Böhmer, Dietmar Ehrhardt, Wolfgang
Oberschelp, 2010-02-16 Mit der Behandlung von Themen auf jeweils einer Text und einer Bildseite ist das Buch übersichtlich
gestaltet. Die einzelnen Gebiete sind in sich geschlossen dargestellt und lassen sich für unterschiedliche Lehrveranstaltungen
verwenden oder nur um Lücken zu schließen. Mit seinen zahlreichen Beispielen vermittelt das Buch zwischen Theorie und
Praxis. Es ist ein zuverlässiger Begleiter für das Elektronikpraktikum und darüber hinaus Arbeitsgrundlage für
Schaltungsentwicklungen. Zusätzliches Material der früheren CD-ROM kann auf <http://extras.springer.com> 2010 978 3 8348
0543 0 heruntergeladen werden. Das Material beinhaltet Informationen zu den theoretischen Grundlagen und
Verfahrensweisen der Halbleitertechnologie und gibt einen Einblick in das Gebiet der Mikrosystemtechnik **Analyse und**
Steuerung von Prozessen der Stoffwirtschaft Klaus Hartmann, 1971-12-31 Keine ausführliche Beschreibung für Analyse
und Steuerung von Prozessen der Stoffwirtschaft verfügbar *Quantitative Analyse von Arzneistoffen und*
Arzneizubereitungen Peter Surmann, 1987 *Quantitative Analyse interner Kontrollsysteme* Michael Sanders, 1987-11-17
Originally presented as the author's thesis doctoral Westfälische Wilhelms Universität Münster 1986 **Einführung in**
die Datenorganisation T. Haindl, 2013-12-14 Gids...voor Rijksuniversiteit te Leiden, 1974 Proceedings and
informations Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Commissie voor
Hydrologisch Onderzoek, 1980 **Diskursanalyse von Verkaufsgesprächen** Achim Pothmann, 2013-07-02 Mehr als
eintausend Veröffentlichungen befassen sich schwerpunktmäßig mit der Thematik von Verkaufsgesprächen. Diese Literatur ist
geprägt von normativen Tipps, Tricks und Ratschlägen für Verkaufsgespräche, die vornehmlich von Praktikern für
Verkaufspraktiker propagiert werden. Sprachwissenschaftlich wurde das Verkaufsgespräch bisher nur partiell untersucht.
Umfassende linguistische Analyseergebnisse fehlen. Diese Studie stellt eine erste empirisch fundierte Einführung in den
Untersuchungsgegenstand Verkaufsgespräch aus linguistischer insbesondere kommunikationsanalytischer Perspektive dar.
Systematische Erforschung und Analyse der Zahnfarbe, Zahnfarbmessung und dentaloptischer Phänomene André
Hoffmann, 2010-01-01 Neue Erkenntnisse und neuartige Methoden. In diesem Forschungsbuch erfahren Sie exklusiv von
einem Wissenschaftler auf dem Gebiet der dentalen Farbsthetik: Farbenlehre und Farbmessung, welche Faktoren Phänomene
und Effekte wie und in welchem Ausmaß bei der visuell subjektiven Farbbestimmung und bei der apparativen Farbmessung
auftreten können zur Farbentstehung und Wahrnehmung beitragen. In langjährigen Studien ist es dem Autor gelungen, die
Zahnfarbentstehung genauer zu analysieren, Einflussfaktoren, Phänomene und Effekte erstmals eindeutig zu isolieren und zu
quantifizieren. Dieses Buch enthält viel Neues mit Relevanz für Physiker, Physiologen, Biologen, Chemiker, Ingenieure.

Werkstoffkundler Mediziner Zahnmediziner Rechtsmediziner Dentalwissenschaftler Zahntechniker und wendet sich an alle die ein hochspannendes wissenschaftliches Werk erleben wollen Interessante physikalische und chemische Phänomene eindeutig isolierte Einflussfaktoren Beschreibungen von Einflüssen im Einfluss ein Paradoxon der Farberfassung kuriose Prozessentwicklungen Ultralangzeitversuche erstaunliche physiologische und pathologische Vorgänge neuartige anwendungsorientierte Methoden die Komplexität menschlicher Wahrnehmung aufwendige Messungen und dazwischen unscheinbar das was vielleicht grundsätzliches Denken verändern könnte

Proceedings of the technical meetings - Committee for Hydrological Research T.N.O. Nederlandse Centrale Organisatie voor Toegepast-Natuurwetenschappelijk Onderzoek. Commissie voor Hydrologisch Onderzoek, 1976 Zur Analyse der unterschiedsempfindlichkeit. experimentelle Beiträge Lillien Jane Martin, Georg Elias Müller, 1899

Analyse und Erforschung der Zahnfarbe und der farbeeinflussenden Faktoren André Hoffmann, 2003-09-19 Der Autor dieses Werks mit dem Untertitel Licht Strahlengänge Messgeometrien Beobachtungswinkel Größen der Messfläche und Messöffnung Glanzwirkung Flüssigkeitsgehalt Trocknung Flüssigkeitswiederaufnahme Subjektivität Kronenkrümmung Systemart Messmodus Messsystem Objekt Relation Positionierung Reproduzierbarkeit hat die Entstehung der Zahnfarbe systematisch und höchstpräzise und auch an menschlichen Zähnen und dentalen Farbringen mit Hochpräzisionsmesssystemen und mit eigens entwickelten Hochpräzisionspositionierungssystemen erforscht und insbesondere im Jahre 2000 seine neuen Erkenntnisse vorgelegt und veröffentlicht und in den Folgejahren konkretisiert Der Pionier im Bereich der optischen Technologien dürfte im Zuge seiner wissenschaftlichen Grundlagenforschung die wesentlichen Einflussfaktoren isoliert und eindeutig quantifiziert haben Dazu gehören beispielsweise das Licht bzw Messlicht und die Lichtarten verschiedener Farbtemperaturen die Strahlengänge des Lichtes bzw die Messgeometrien der Beobachtungswinkel 2 10 die Größe der Messfläche und Messöffnung die Glanzwirkung der Flüssigkeitsgehalt mit wissenschaftlichem Beweis des Zusammenhanges zwischen Flüssigkeitsgehalt und Zahnfarbe Wirkung von Trocknung und Flüssigkeitswiederaufnahme Dehydratation Rehydrierung der Anteil des Flüssigkeitsgehaltes an der Glanzwirkung die Subjektivität von visueller Bestimmung Kronenkrümmung Systemart Spektralphotometer Dreibereichsfarbmesssystem Messmodus Kontakt oder Non kontakt Modus Messsystem Objekt Relation Positionierung Wiederholbarkeit bzw Reproduzierbarkeit Zudem wurden subjektiv visuelle Bestimmungen und objektivierte Messungen in Subjektiv objektiv Vergleichen der Wertevergleiche nachgegangen Alle diese Einflussfaktoren sind nicht nur an feuchten sondern auch an trockeneren verschiedene bestimmte Trocknungs bzw Rehydrierungszustände und trockenen Zähnen anhand auch der Helligkeit L von Farbmesswerten wie beispielsweise a b C h E des Metamerieindex von Spektralwerten von Zahnfarbproben und von Zahnfarbproben analysiert Im Rahmen dieser Erkundung konnten Phänomene beispielsweise Änderungen und Brüche im Verhalten sowie hochindividuelle Entwicklungen der Farbwerte Paradoxes zwischen den Werten subjektiver Bestimmung mittels Zahnfarbproben und den Werten objektivierender Messungen aufgedeckt und Einblick in die

Farbdynamik durch De und Rehydratation gew hrt werden Die Entwicklung der einzelnen Farbmesswerte lie beispielsweise R ckschl sse ber den Fl ssigkeitsfluss durch den Zahn und seine Gewebe insbesondere bei Trocknung und Fl ssigkeitswiederaufnahme zu und gab Auskunft ber das zeitliche Ausma dieser Prozesse Auf Basis dieser Datenlage hatte Hoffmann mehrere Verfahren f r die Forschung und Anwendung in der Praxis entwickelt Innovationen vorgeschlagen und f r machbar eingestuft wie beispielsweise das trocknungsprotektive Monitoring zur Vermeidung von Devitalisierung bei zahnmedizinischer Behandlung eine Rekonstruktion der Farbe von nat rlich feuchten Z hnen an bereits angetrockneten die Identifizierung von Lebenden und Toten ber den dentalen Fingerabdruck und f r die Rechtsmedizin eine neue Methode zur Todeszeitbestimmung Zudem beschrieb er eine zeitliche Trocknungsgrenze bis zu der noch relativ nat rliche passende Farbwerte zu erhalten sind und nach der keine Farbbestimmung mehr erfolgen sollte und er legte die Fl ssigkeitswiederaufnahmezeit nach Ende der Trocknung fest die gewartet werden muss um wieder eine nat rliche Zahnfarbe zu erhalten Seine Erkenntnisse sind u a auch dass Z hne in der Lage sind Informationen beispielsweise zum Zustand Fl ssigkeitsgehalt Farbwerte und zur Zeit innerhalb der Trocknungs und Fl ssigkeitswiederaufnahmechronologie zu speichern Der Autor artikuliert einen dentalen Datenspeicher und ein dentales Ged chtnis *Groninsche Universiteitsgids* Rijksuniversiteit Groningen,1973 **Zur Analyse der Unterschiedsempfindlichkeit** Lillie J. Martin,1899

Informatieanalyse Kees Ruigrok,2007 De informatieanalist koppelt inhoudelijke ict kennis en vaardigheden aan inzicht in en gevoel voor cultuur en politiek van een organisatie Hij legt de brug tussen de doelen van de organisatie en de informatiesystemen die de oplossingen bieden Dit boek brengt benodigde vaardigheden samen verschillende hulpmiddelen diagramtechnieken en checklisten om informatiebehoeften en gewenste ict ondersteuning in kaart te brengen **Hermann Grassmanns gesammelte mathematische und physikalische Werke** ,1894

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