

2 EIGENWERTPROBLEME

Viele numerische Lösungsansätze von z.B. physikalischen Problemen erfordern die Lösung eines sogenannten Eigenwertproblems. Zu einer Matrix $A \in \mathbb{R}^{n \times n}$ finde man eine Zahl $\lambda \in \mathbb{C}$ und einen Vektor $v \in \mathbb{C}^n$, $v \neq 0$, sodass die *Eigenwertgleichung*

$$Av = \lambda v$$

erfüllt ist. Die Zahl λ heißt *Eigenwert* und der Vektor v *Eigenvektor* zum Eigenwert λ . Betrachten wir nun zunächst einige konkrete Beispiele, die auf ein Eigenwertproblem führen.

Beispiel 2.0.1 (Sturm-Liouville-Problem) Die mathematische Modellierung zur Beschreibung der Überlagerung von Schwingungsvorgängen – wie sie etwa beim Brückenbau durchgeführt wird, um Resonanzen zu vermeiden, die einen Brückeneinsturz verursachen könnten – führt auf das sogenannte Sturm-Liouville Problem: Zu einer bekannten stetigen Funktion $r(x) > 0$, $x \in [0, 1]$, finde man die Zahl λ und die Funktion $u(x)$, die die Differenzialgleichung

$$-u''(x) - \lambda r(x) u(x) = 0, \quad x \in (0, 1) \quad (2.1)$$

mit den Randbedingungen

$$u(0) = u(1) = 0$$

erfüllen. Um die Lösung über ein Diskretisierungsverfahren numerisch anzunähern, betrachten wir Gitterpunkte

$$x_j = jh, \quad j = 0, \dots, n, \quad h = \frac{1}{n}$$

und ersetzen $u''(x_j)$ durch den zweiten zentrierten Differenzenquotienten

$$\frac{u(x_j + h) - 2u(x_j) + u(x_j - h))}{h^2}, \quad j = 1, \dots, n-1.$$

Es ergibt sich so ein System

$$Au - \lambda Ru = 0 \quad (2.2)$$

für die Unbekannten λ und $u_i \approx u(x_i)$, $i = 1, \dots, n-1$, wobei

$$A = \frac{1}{h^2} \begin{pmatrix} 2 & -1 & & & \\ -1 & 2 & -1 & & \\ & \ddots & \ddots & \ddots & \\ & & -1 & 2 & -1 \\ & & & -1 & 2 \end{pmatrix}, \quad R = \begin{pmatrix} r(x_1) & & & 0 \\ & r(x_2) & & \\ & & \ddots & \\ 0 & & & r(x_{n-1}) \end{pmatrix}. \quad (2.3)$$

Mit $R^{1/2} = \text{diag}(\sqrt{r(x_1)}, \dots, \sqrt{r(x_{n-1})})$, $R^{-1/2} = (R^{1/2})^{-1}$, $B := R^{-1/2}AR^{-1/2}$ sowie $v = R^{1/2}u$ erhält man aus (2.2) die transformierte Gleichung

$$Bv = \lambda v,$$

also ein Eigenwertproblem.

Bemerkung 2.0.2 Da R regulär ist, hätte man die Gleichung (2.2) auch von links mit R^{-1} multiplizieren und so das Eigenwertproblem $R^{-1}Au = \lambda u$ erhalten können. Im Gegensatz zur Matrix B ist die Matrix $R^{-1}A$ jedoch nicht symmetrisch.

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web serie 8 Şarjlı süpürge unlimited gen2 parquet siyah yüksek performans bosch un yeni nesil kablolu süpürgesi kablolu süpürge kadar güçlü led ışıklı allfloor highpower başlık yer ışıkları ile geliştirilmiş temizleme performansı turbospin motor daha hızlı daha hafif ve daha etkili temizlik performansı

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yaşam için teknoloji bosch ev aletleri - Nov 05 2022

web bosch ev aletleri ev işlerini daha da kolaylaştırmak günlük yaşamı güzelleştirmek için üretilir bosch un faaliyetlerinin temelinde yorucu ev işlerinin azaltılmasına katkı sağlayan ve böylece yaşam kalitesini yükselten teknolojiler yer alır

maison ju maison ju lucky charms maisonju tr - Sep 15 2023

web Özel günlerin vazgeçilmezi maison ju kendinden emin stil sahibi kadınlar için tasarlanan yeni koleksiyonunda heykelsi ve zarif formlar ile couture şıklığını davetlere taşıyor

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elektrikli süpürge modelleri ile pek çok kişi tarafından büyük bir ilgi görüyor

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Şirketimiz bosch türkiye - Dec 06 2022

web bosch grubu nun türkiye deki lokomotif şirketi olan bosch sanayi ve ticaret a Ş ağırlıklı olarak mobilitte sektöründe üretim geliştirme satış ve pazarlama faaliyetlerinde bulunmaktadır bursa organize sanayi bölgesi ndeki üç fabrikada dünyanın önde gelen otomotiv üreticileri için güç aktarma Çözümleri

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yüksek dayanıklılığa sahip yeni bosch evo bujileri - Jan 07 2023

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web tüm ülkelerdeki bosch web sitelerinin tamamının listesi bosch un global üretim mühendislik ve satış ağı dünyanın hemen hemen her ülkesini kapsıyor

bosch marka Ürünler en uygun fiyatlarla mediamarkt - Apr 10 2023

web avrupa nın 1 numaralı beyaz eşya markası olan bosch un kuruluşu 1886 yılına uzanır o günden bugüne evinizin hemen hemen her noktasında hayatınızı kolaylaştırırken şıklıktan da ödün vermeyen bosch beyaz eşya ürünleri üretimin her aşamasında yaptığı kalite kontrol testleriyle süreçte hiçbir detayı şansa

buzdolapları bosch ev aletleri - Sep 03 2022

web geniş kapasiteli bosch xxl buzdolaplarında yiyecek ve içecekleriniz için bol bol yer var vitafresh teknolojisi ile besinlerinizin vitamin değerini koruyan bosch xxl ve xl buzdolapları ile tanışın Ürünleri keşfedin