

Licht und Materie

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Laserphysik Schule Verh Ltnis Licht Materie

Hermann Haken



Laserphysik Schule Verh Ltnis Licht Materie:

Laserphysik in der Schule. Das Verhältnis von Licht und Materie David Liskatin, 2015-07-14 Masterarbeit aus dem Jahr 2014 im Fachbereich Physik Experimentalphysik Note 1,0 Technische Universität Dortmund Sprache Deutsch Abstract Licht und Materie sind zwei zentrale Begriffe der Physik die bereits seit dem Beginn der Wissenschaft in der Antike untersucht werden Der Laser als Verstärker optischer Strahlung gilt als bedeutsame Anwendung der Wechselwirkung zwischen Licht als einer Form von Energie sowie Atomen bzw Molekülen als Gebilde von Materie Das erste Kapitel beschäftigt sich dabei zunächst mit den theoretischen physikalischen Grundlagen die zur Entwicklung des Lasers führten Die darauf folgenden Aspekte der vorliegenden Arbeit konzentrieren sich auf unterschiedliche moderne Lasertypen wie sie vielfältig zur Anwendung kommen Im Hinblick auf die Thematisierung der Laserphysik im Physikunterricht steht dabei der Stickstofflaser N₂ Laser im Vordergrund der eine vergleichsweise einfache Möglichkeit darstellt Schülerinnen und Schüler die Laserphysik nahezubringen Im dritten Kapitel wird eine Anleitung zum eigenständigen Bau einer Version dieses Lasers beschrieben für den fast ausschließlich alltägliche und leicht verfügbare Materialien notwendig sind und der UV Licht mit einer Wellenlänge von ca 337,1 nm aussendet An seinem Beispiel können alle relevanten Vorgänge der Wechselwirkung zwischen Licht und Materie erläutert werden sodass die Entstehung von Laserlicht deutlich wird Das sodann folgende Kapitel beinhaltet daher mögliche Integrationen dieses gebauten Modells in den Schulunterricht Damit kann dieser sonst eher theoriebehaftete Kontext eine lebhaftere Rolle im Physikunterricht einnehmen *Licht Und Materie Band 2* Haken, 1995-01-01 **Light and Matter**

Ic / Licht und Materie Ic Hermann Haken, 2013-06-29 The concept of the laser came into existence more than a decade ago when SCHAWLOW and TOWNES showed that the maser principle could be extended to the optical region Since then this field has developed at an incredible pace which hardly anybody could have foreseen The laser turned out to be a meeting place for such different disciplines as optics e.g spectroscopy optical pumping radio engineering solid state physics gas discharge physics and many other fields The underlying structure of the laser theory is rather simple The main questions are what are the light intensities a what are the frequencies b what fluctuations occur c or in other words what are the coherence properties Roughly speaking these questions are treated by means of the rate equations a the semiclassical equations b and the fully quantum mechanical equations c respectively The corresponding chapters are written in such a way that they can be read independently from each other For more details about how to proceed the reader is advised to consult Chap I 4

Licht und Materie Hermann Haken, 1995-01 *Licht und Materie* Hermann Haken, 1985

The Enigmatic Realm of **Laserphysik Schule Verh Ltnis Licht Materie**: Unleashing the Language is Inner Magic

In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Laserphysik Schule Verh Ltnis Licht Materie** a literary masterpiece penned by way of a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting affect the hearts and minds of those who partake in its reading experience.

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