

Alla spiegazione viene affiancata la valutazione numerica (Fig. 2) del modulo del vettore di Poynting, per un'onda polarizzata TE incidente con angolo $\xi_1 = \xi_1^c$ sulla superficie di separazione tra due mezzi dispersivi di permittività $\epsilon_1 = 2 + j0.3$ e $\epsilon_2 = 5 + j0.03$, alla lunghezza d'onda di 1.550nm per differenti valori di η_1 .

Il campo è stato calcolato utilizzando il software COMSOL, con il metodo degli elementi finiti nel dominio della frequenza. Il modulo del vettore di Poynting nel primo mezzo è attenuato, con delle oscillazioni dovute all'onda riflessa, mentre nel secondo mezzo è costante. L'onda trasmessa può quindi propagarsi indefinitamente nella direzione ortogonale all'interfaccia.

A questo punto viene posta l'importante domanda sulla possibilità di ottenere il massimo effetto (onda a penetrazione profonda nel mezzo dissipativo) nel caso di una interfaccia tra un mezzo non dissipativo e uno dissipativo. La risposta è che è possibile, a patto che l'onda nel mezzo non dissipativo sia non uniforme, con il vettore di fase e il vettore di attenuazione ortogonali tra loro, come ad esempio un'onda leaky.

L'onda non uniforme nel mezzo non dissipativo è definita dal modulo del vettore di fase β_1 , il modulo del vettore di attenuazione si ricava dalla condizione di separabilità che si riduce a $\beta_1^2 - \alpha_1^2 = k_2^2$. Inserendo questa relazione nella (5) si ottiene la seguente:

$$\beta_1 \alpha_1 \sin(2\xi_1) = \text{Im}(k_2^2) \quad (8)$$

Nuovamente l'equazione fornisce entrambi gli angoli ξ_1^c e ξ_1^t , distinti dal valore di $R_0(k_{2c})$. Invertendo (8):

$$\xi_1 = \frac{1}{2} \arcsin \left[\frac{\text{Im}(k_2^2)}{\beta_1 \alpha_1} \right] \quad (9)$$

Questa equazione pone il seguente limite inferiore al valore di β_1 , dovendo essere l'argomento dell'arcoseno minore o uguale dell'unità:

$$\beta_1 \geq \frac{k_2}{\sqrt{2}} \sqrt{1 + \sqrt{1 + \left| \frac{2\text{Im}(k_2^2)}{k_1^2} \right|}} \quad (10)$$

L'angolo critico ξ_1 vale zero se la precedente è un'equazione o decresce rapidamente in funzione di β_1 .

Si osserva come, all'aumentare di β_1 , sia ξ_1 che il relativo angolo di trasmissione tendono a zero. Allo stesso tempo il coefficiente di trasmissione di Fresnel tende a 1 e l'ampiezza dell'attenuazione aumenta in entrambi i mezzi.

In Fig. 3 viene rappresentata il modulo del vettore di Poynting per un'onda non uniforme incidente sulla superficie di separazione tra il vuoto (mezzo 1) e lo stesso mezzo 2 di Fig. 2, e per un'onda uniforme incidente con lo stesso angolo. L'onda non uniforme considerata nella simulazione, effettuata sempre con COMSOL, presenta il minimo valore di β_1 . Nuovamente le oscillazioni nel mezzo 1 sono dovute all'onda riflessa. Inoltre l'aumento in ampiezza dell'onda non uniforme, tipico delle onde leaky, è correlato alla direzione del vettore di attenuazione, dato che nel caso considerato $\xi_1 = \xi_1^c = \eta_1 = 30^\circ$.

A sostegno delle considerazioni analitiche, si osserva anche nella simulazione come l'ampiezza dell'onda trasmessa resti costante se l'onda incidente è non uniforme.



Figura 2. Modulo del vettore di Poynting per un'onda incidente con angolo $\xi_1 = \xi_1^c$.



Figura 3. Modulo del vettore di Poynting per un'onda non uniforme (linea continua) incidente sull'angolo critico ξ_1^c e per un'onda uniforme incidente allo stesso angolo.

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Table of Contents Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr

1. Understanding the eBook Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - The Rise of Digital Reading Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Advantages of eBooks Over Traditional Books
2. Identifying Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Personalized Recommendations
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr User Reviews and Ratings
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr and Bestseller Lists
5. Accessing Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr Free and Paid eBooks
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr Public Domain eBooks
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr eBook Subscription Services
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr Budget-Friendly Options
6. Navigating Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr eBook Formats

- ePub, PDF, MOBI, and More
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr Compatibility with Devices
 - Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Highlighting and Note-Taking Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Interactive Elements Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 8. Staying Engaged with Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 9. Balancing eBooks and Physical Books Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Setting Reading Goals Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Fact-Checking eBook Content of Sulla Penetrazione Dei Proiettili Nei Mezzi Solidi Offpr
 - Distinguishing Credible Sources
 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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