

Laser Passivement Q-Declenche



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Reviews

A top quality publication and also the font employed was interesting to learn. It is really simplistic but excitement within the fifty percent from the book. Its been designed in an remarkably basic way in fact it is only following i finished reading this pdf where in fact changed me, modify the way i believe.

(Rachel Stiedemann)

LASER PASSIVEMENT Q-DECLENCHE



Editions Universitaires Europeennes. Paperback. Condition: New. 192 pages. Dimensions: 8.7in. x 5.9in. x 0.4in. Les lasers impulsionnels, en raison de leurs propriétés intrinsèques (faible durée, fortes puissances crêtes), ont de nombreuses applications dans des domaines aussi variés que l'industrie, la médecine ou la métrologie. Fusionner ces propriétés avec les avantages des lasers entièrement fibres (lumière confinée, grande longueur d'interaction, pas de déalignement) est donc un enjeu technologique et scientifique très prometteur. Ce manuscrit de thèse traite de la dynamique des lasers auto-impulsionnels afin d'optimiser un laser entièrement fibre passivement Q-déclenché par absorbant saturable. Notre intérêt se porte sur l'ytterbium (Yb³⁺) comme milieu amplificateur et le chrome (Cr⁴⁺) comme absorbant saturable (AS). Une première étude originale a permis de déterminer le temps de vie du Cr⁴⁺ à température ambiante dans les fibres en silice inférieure à 1 ns, durée bien plus courte que celle mesurée dans des cristaux de référence. Grâce à cet AS peu efficace (court) qui stabilise les auto-impulsions chaotiques engendrées par l'Yb³⁺, nous avons alors réalisé le premier laser auto-impulsionnel stable entièrement fibre Yb³⁺: Cr⁴⁺ avec des durées de sub-nanoseconde pour des puissances crêtes de 4 W. This item ships from multiple locations. Your book may arrive from Roseburg, OR, La Vergne, TN. Paperback.



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