

**Laser Filamentation: Mathematical Methods And  
Models (CRM Series In Mathematical Physics)**



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Mathematical methods of measurement evaluation in A novel method of center evaluation based upon approximation of laser spot intensity distribution by polynomial

<http://proceedings.spiedigitallibrary.org/proceeding.aspx?articleid=906524>

Then we analyze the dynamics of the system of ODEs using numerical continuation methods system from laser dynamics. Mathematical Methods in the <http://epubs.siam.org/doi/abs/10.1137/S1111111102401746>

2009-10 - Mini-cours aux PDE and Mathematical Biology sessions of the 9th ICOR (La .. spectives in Phase Space Analysis of PDE's , Birkhuser series Progress time-dependent equations for ocean wave propagation, Physics of Fluids . Congr s Mathematical Methods and Models in Laser Filamentation , CRM

<http://www.math.u-bordeaux1.fr/~dlannes/fichiers/curric.pdf>

Mathematical Methods in the Applied Sciences, n/a-n/a. (2013) (2007) Complex Valued Spectral Hermite Approximations for the Actively Mode-Locked Laser.

<http://epubs.siam.org/doi/abs/10.1137/S0036142999362936>

Journal of Mathematical Laser Institute as well as illustrates the development of mathematical methods suitable for such applications and for the

<http://scitation.aip.org/content/aip/journal/jmp>

In the framework of the first direction the mathematical methods and in laser beam has been Laser Beam Propagation Through Atmospheric Turbulence.

<http://oai.dtic.mil/oai/oai?&verb=getRecord&metadataPrefix=html&identifier=ADA311320>

Mathematical Methods in Biomedical Optics. Refraction is not significant in biomedical applications, except for laser irradiation of transparent media,

<http://www.hindawi.com/journals/isrn/2013/464293/>

Nov 1, 2013 These ultrafast laser pulses range over a time scale of femtoseconds The discovery has led to intensive investigations in physics and applied mathematics to understand new effects such as the creation (CRM) is organizing a workshop Mathematical models and methods in Laser Filamentation at the

<http://mpe.dimacs.rutgers.edu/2013/11/01/controlling-lightning/>

A further examination of these wavefunctions is made by a calculation of the net forces acting Laser Institute of Mathematical Methods and Energy Variances

<http://scitation.aip.org/content/aip/journal/jcp/50/1/10.1063/1.1670873>

Mathematical model of penetration in laser microwelding of dissimilar materials A V PANYUKHIN and B N BAD'YANOV In comparison with the previously used methods,

<http://www.tandfonline.com/doi/pdf/10.1080/09507119409548613>

Phys., 2015. [A36] Book chapter for Mathematical methods and models in Laser Filamentation. Springer,. CRM Series in Mathematical Physics., To appear, 2015

[http://people.math.carleton.ca/~elarin/report\\_research.pdf](http://people.math.carleton.ca/~elarin/report_research.pdf)

Workshop on mathematical Methods and Models in Laser Filamentation - March 10-14, 2014. Mathematics of Planet Earth. webmaster@CRM.UMontreal.CA

<http://www.crm.umontreal.ca/MPE/mpe.shtml>

CRM Series in Mathematical Physics. 2016. Free Preview. Laser Filamentation . Mathematical Methods and Models. Editors: Bandrauk, Andre D., Lorin,

<http://www.springer.com/us/book/9783319230832>

Laser Filamentation: Mathematical Methods and Models (CRM Series in Mathematical Physics)

<http://www.researchbooks.org/3319230832/LASER-FILAMENTATION-MATHEMATICAL-METHODS-MODELS/>

Mathematical Methods in Wave Propagation and Scattering \*LASER BEAMS, \*WAVE PROPAGATION, PULSED LASERS, ULTRASONICS, IMAGES, SEISMIC WAVES

<http://oai.dtic.mil/oai/oai?verb=getRecord&metadataPrefix=html&identifier=ADA129392>

This work presents the mathematical methods widely used by workers in the field of quantum optics. Laser, Optical Physics Methods in Theoretical Quantum Optics.

<http://ukcatalogue.oup.com/product/9780198563624.do>

The mathematical methods needed to describe all quantum phenomena The new results in the statistical properties of the laser radiation discussed here are based on

<http://iopscience.iop.org/1402-4896/87/3/030201>

Workshops BioInfoSummer 2012 African Institute for Mathematical Sciences, Muizenberg, Cape Town, Models and Methods in Ecology and Epidemiology. Ecology

<http://mpe.dimacs.rutgers.edu/workshop/>

smooth dependence and centre manifold reduction for a semilinear hyperbolic system from laser dynamics, Mathematical Methods in the laser equations

<http://onlinelibrary.wiley.com/doi/10.1002/mma.1670010206/citedby>

is a research lab in the School of Computer Science at the University of Massachusetts Amherst. LASER is dedicated to LASER research centers on the

<http://laser.cs.umass.edu/>

and Computational Methods brings together many new mathematical techniques Part V examines the role of coherence functions in modern laser physics and

<https://www.crcpress.com/Mathematical-Optics-Classical-Quantum-and-Computational-Methods/Lakshminarayanan-Calvo-Alieva/9781439869604>

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