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( 1 )

# Determination of size changes of optically trapped gas bubbles by elastic light scattering

M. Lankers, E. E. M. Khaled, J. Popp, R. Roessling, H. Stahl and W. Kiefer

## Abstract:

NULL

## Keywords:

Determination of size changes of optically trapped gas bubbles by elastic light scattering .AP

## Published In:

Journal of Applied Optics AP, , Vol. 36, No. 7 , NULL



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( 2 )

# Temporal behavior of short optical pulses scattered by small particles

E. E. M. Khaled and AM. Elhasan

## Abstract:

NULL

## Keywords:

Temporal behavior of short optical pulses scattered by small particles

## Published In:

Journal of Physica Scripta, Sweden , Vol. 54 , pp. 525 - 529



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( 3 )

# Internal and scattered time- dependent intensity of a dielectric sphere illuminated with a Gaussian pulse in space and time

E. E. M. Khaled, D. Q. Chowdhury, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Internal and scattered time- dependent intensity of a dielectric sphere illuminated with a Gaussian pulse in space and time

## Published In:

Journal of Optical Society of America All , NULL , All pp. 2065-2071



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( 4 )

# Internal electric energy in spherical particle illuminated with plane waves or off-axis Gaussian beams

E. E. M. Khaled, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Internal electric energy in spherical particle illuminated with plane waves or off-axis Gaussian beams

## Published In:

Journal of Applied Optics , Vol. 33 - No.3 , pp. 524-532



---

( 5 )

# Light scattering by a coated sphere illuminated with a Gaussian beam,

E. E. M. Khaled, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Light scattering by a coated sphere illuminated with a Gaussian beam,

## Published In:

Journal of Applied Optics 33 , NULL , pp. 3308 - 3318



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( 6 )

# Scattered and internal intensity of a sphere illuminated with a Gaussian Beam

E. E. M. Khaled, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Scattered and internal intensity of a sphere illuminated with a Gaussian Beam

## Published In:

IEEE Transactions on Antenna and Propagation , Volume 41, No. 3 , pp. 295-303



( 7 )

# Near- resonance Excitation of dielectric sphere with plane waves and off-axis Gaussian beams

E. Esam M. Khaled,S. C. Hill and P. W. Barber and D. Q. Chowdhury

## Abstract:

NULL

## Keywords:

Near- resonance Excitation of dielectric sphere with plane waves and off-axis Gaussian beams

## Published In:

Journal of Applied Optics ,AP, (Rapid Communication) , Vol. 31 - No. 9 , pp. 1166-1168



( 8 )

# Behavior of the scattered intensities of multilayered and radially inhomogeneous lossy sphere illuminated with electromagnetic waves

E. E. M. Khaled, and M. F. Salem

## Abstract:

NULL

## Keywords:

Behavior of the scattered intensities of multilayered and radially inhomogeneous lossy sphere illuminated with electromagnetic waves

## Published In:

Journal of the Faculty of Engineering, Assiut University , Vol. 29, No. 2 , NULL





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( 9 )

# Time-dependent intensities of an arbitrary pulsed electromagnetic wave scattered by a radially inhomogeneous sphere

E. E. M. Khaled, and M. F. Salem

## Abstract:

NULL

## Keywords:

Time-dependent intensities of an arbitrary pulsed electromagnetic wave scattered by a radially inhomogeneous sphere

## Published In:

Journal of the Faculty of Engineering, Assiut University, Egypt , Vol. 28, No. 3 , NULL



---

( 10 )

# Lifetime determination of an optical fiber affected by stresses of position and road traffic

Noureddin M. Ibrahim, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

Lifetime determination of an optical fiber affected by stresses of position and road traffic

## Published In:

Journal of the Faculty of Engineering, Assiut University, Egypt , Vol. 28, No. 3 , NULL



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( 11 )

# Scattered of Arbitrary Shaped Electromagnetic Waves by Stratified Media: A Model for Noninvasive Hyperthermia Therapy

E. E. M. Khaled

## Abstract:

NULL

## Keywords:

Scattered of Arbitrary Shaped Electromagnetic Waves by Stratified Media: A Model for Noninvasive Hyperthermia Therapy

## Published In:

Journal of the Faculty of Engineering, Assiut University , Vol. 26, No. 1 , pp. 159 - 170



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( 12 )

# Transient internal and scattered fields of a dielectric sphere illuminated with a pulsed Gaussian beam

E. E. M. Khaled, D. Q. Chowdhury, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Transient internal and scattered fields of a dielectric sphere illuminated with a pulsed Gaussian beam

## Published In:

Applied Computational Electromagnetics Society (ACES) meeting, Naval Postgraduate School, Monterey, CA ,USA.22-26 ,  
NULL , NULL



---

( 13 )

# Time dependence of the internal and scattered intensity of a dielectric sphere illuminated with a pulsed Gaussian beam

E. E. M. Khaled, D. Q. Chowdhury, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Time dependence of the internal and scattered intensity of a dielectric sphere illuminated with a pulsed Gaussian beam

## Published In:

Optical Society of America (OSA) annual meeting, Albuquerque, NM ,USA,20-25 , NULL , NULL



( 14 )

# Light scattering by a layered sphere illuminated with a Gaussian beam

E. E. M. Khaled, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Light scattering by a layered sphere illuminated with a Gaussian beam

## Published In:

CRDEC conference on Obscuration and Aerosol Research at the Edgewood area of Aberdeen proving ground, Maryland ,USA,22-25 , NULL , NULL



---

( 15 )

# Internal and scattered intensity of a dielectric sphere with a Gaussian function in space and time

E. E. M. Khaled, D. Q. Chowdhury, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Internal and scattered intensity of a dielectric sphere with a Gaussian function in space and time

## Published In:

CRDEC conference on Obscuration and Aerosol Research at the Edgewood area of Aberdeen proving ground, Maryland ,USA,22-25 , NULL , NULL



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( 16 )

# Scattered/internal for dielectric objects with Gaussian beam illumination

E. E. M. Khaled, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Scattered/internal for dielectric objects with Gaussian beam illumination

## Published In:

Applied Computational Electromagnetics Society (ACES) meeting, Naval Postgraduate School, Maryland, CA ,USA,17-20 ,  
NULL , NULL





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( 17 )

# Energy density distribution inside a sphere illuminated with a tightly focused Gaussian beam

E. E. M. Khaled, S. C. Hill and P. W. Barber

## Abstract:

NULL

## Keywords:

Energy density distribution inside a sphere illuminated with a tightly focused Gaussian beam

## Published In:

LEOS International Conference on Optical Science and Engineering, San Jose, CA ,USA,4-7 , NULL , NULL



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( 18 )

## Resonances and electric energy density in droplets

S. C. Hill, P. W. Barber, D. Q. Chowdhury, E. E. M. Khaled and M. Mazumder

### Abstract:

NULL

### Keywords:

Resonances and electric energy density in droplets

### Published In:

SPIE International Conference on Nonlinear Optics and Materials, Dallas, TX ,USA,08-10 , NULL , NULL



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( 19 )

# Scattering of an on-axis arbitrarily-shaped focused electromagnetic beam by an elongated spheroidal object

E. E. M. Khaled

## Abstract:

NULL

## Keywords:

Scattering of an on-axis arbitrarily-shaped focused electromagnetic beam by an elongated spheroidal object

## Published In:

Proceeding of the twenty-sixth national radio science conference (NRSC 26, 2009) sponsored by URSI and IEEE, Faculty of Engineering, Future University, Cairo, Egypt 17-19 , NULL , NULL



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( 20 )

# A temporal numerical solution of electromagnetic fields in an -arbitrary inhomogeneous scatterer using finite-volume time domain method: Sinusoidal steady state penetration

E. E. M. Khaled

## Abstract:

NULL

## Keywords:

A temporal numerical solution of electromagnetic fields in an arbitrary inhomogeneous scatterer using finite-volume time-domain method: Sinusoidal steady state penetration

## Published In:

Proceeding of the twenty-fifth national radio science conference (NRSC,2008) sponsored by URSI and IEEE, Engineering collage, Tanta University, Cairo, Egypt 18-20 , NULL , NULL



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( 21 )

# Scattering of an electromagnetic beam by a radially Inhomogeneous sphere

E. E. M. Khaled, and M. F. Salem

## Abstract:

NULL

## Keywords:

Scattering of an electromagnetic beam by a radially Inhomogeneous sphere

## Published In:

The seventeenth national radio science conference (NRSC 2000) sponsored by URSI and TEEE, Electronic Engineering Collage, Minufiya University, Minufiya, Egypt 22-24 , NULL , NULL



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( 22 )

## Electric intensity distributions in planer stratified slabs illuminated with shaped electromagnetic waves

E. E. M. Khaled

### Abstract:

NULL

### Keywords:

Electric intensity distributions in planer stratified slabs illuminated with shaped electromagnetic waves

### Published In:

The fifteenth national radio science conference (NRSC,98) sponsored by URSI and IEEE, Engineering collage, Helwan University, Cairo, Egypt 22-26 , NULL , NULL



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( 23 )

# Time-dependence of backscattered intensities of a sphere illuminated with very short electromagnetic pulses

E. E. M. Khaled

## Abstract:

NULL

## Keywords:

Time-dependence of backscattered intensities of a sphere illuminated with very short electromagnetic pulses

## Published In:

The thirteenth national radio science conference (NRSC96) sponsored by URSI and TEEE, Academy of scientific research and technology, Military technical collage, Cairo, Egypt 19-21 , NULL , NULL



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( 24 )

# Scattering of a Focused Gaussian Beam by a Dielectric Spheroidal Particle with a Nonconcentric Spherical Core

Elsayed Esam M. Khaled, Medhat E. Aly

## Abstract:

NULL

## Keywords:

Scattering, Laser Beam, Nonconcentric Core

## Published In:

The 2010 Frontiers in Optics (Fio) and Laser Science XXVI, OSA annual Meeting Rochester, NY, USA 24-28 , NULL , NULL





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( 25 )

# photoluminescence Enhancement from an Axisymmetric Zinc Sulfide particle Illuminated with a focused Laser Beum

Elsayed Esam M. Khaled and Hany L.Ibrahim

## Abstract:

NULL

## Keywords:

NULL

## Published In:

The Sane Meeting , Frontiers in Optics and Laser Science XXVI, Rochester, NY, USA , NULL , NULL



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( 26 )

# Scattering of a focused Gaussian beam by an axisymmetric particle with a nonconcentric spherical core

E. E. M. Khaled and M. E. M. Aly

## Abstract:

NULL

## Keywords:

NULL

## Published In:

journal Physica Scripta, Phys.scr.83(2011)025101-025107 , NULL , NULL



( 27 )

## A proximity fed annular slot antenna with different a band-notch manipulations for ultra-wide band applications, Progress in

Elsayed E. M. Khaled, Ayman A. R. Saad, and Deena M. Salem

### Abstract:

A proximity-fed annular slot antenna for UWB applications with a band rejection using different techniques is presented. The proposed antenna provides an UWB performance in the frequency range of 2.84 to 8.2 GHz with relatively stable radiation parameters. Three different techniques to construct a resonant circuit for the proposed antenna are investigated to achieve the band-notch property in the band 5.11 to 5.69 GHz band which include the WLAN and HIPERLAN/2 services without degrading the UWB performance of the antenna. Three resonators are considered; a single complementary split ring resonator (CSRR), a complementary spiral loop resonator (CSLR) and a spurline slot. Furthermore, the band-notched resonance frequency and the bandwidth can be easily controlled by adjusting the dimensions of the resonator. The proposed antenna is simulated, fabricated and measured. The measured data show very good agreements with the simulated results. The proposed antenna provides almost omnidirectional patterns, relatively flat gain and high radiation efficiency over the entire UWB frequency excluding the rejected band.

### Keywords:

NULL

### Published In:

Electromagnetic Research PIERB , Vol. 37 , pp.289-306



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( 28 )

# A Design of Miniaturized Ultra Wideband Printed Slot Antenna with 3.5/5.5 GHz Dual Band-notched Characteristics: Analysis and Implementation

M. M. M. Ali, A. A. R. Saad, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Progress In Electromagnetic Research B, PIERs B , Vol. 52 , 37-56



( 29 )

## 5.5 Ghz Notched Ultra-wideband Printed Monopole Antenna Characterized By Electromagnetic Band Gap Structures

Ayman Ayd R. Saad, Deena A. Salem & Elsayed Esam M. Khaled

### Abstract:

This paper presents a promising design of a band-notched printed monopole antenna for ultra-wide band (UWB) applications. By properly incorporating either a slotted patch electromagnetic band gap (spEBG) structure or a parasitic strip electromagnetic band gap (psEBG) structure in the antenna design a wide operating bandwidth from 3.7 to beyond 10.6 GHz for  $VSWR \leq 2$  is obtained. Moreover a band-notched performance in the 5-6 GHz range is achieved. The proposed antenna is successfully designed and fabricated. The measured data of the proposed antenna show good agreement with the simulated results. Good impedance matching, high gain and high efficiency are obtained over the frequency band excluding the rejected band. The input admittance of the proposed antenna is modeled as a SPICE-compatible equivalent circuit using vector fitting technique, and the validity of the modeling method is verified.

### Keywords:

Monopole Antenna; Ultra-Wideband (UWB); Band-Notch, EBG Structures; Circuit Modeling; Vector Fitting; SPICE Equivalent Circuit

### Published In:

International Journal of Electronics and Communication Engineering (IJECE) , Vol.1, Issue 1 , PP. 1-12



( 30 )

## Light Scattering From a Cluster Consists of Layered Axisymmetric Objects

Hany L. S. Ibrahim, Elsayed Esam M. Khaled

### Abstract:

Random-orientation scattering properties of a plane wave scattered by an arbitrary, symmetric cluster consists of coated spherical and coated spheroidal particles are presented. The calculation is based on a method that calculate the cluster T-matrix, and from which the orientation-averaged scattering matrix and total cross sections can be analytically obtained. Numerical results for the random-orientation scattering matrix are presented. The cluster consists of particles ensemble the form of a densely packed cluster and linear chains.

### Keywords:

Light Scattering, Cluster, Layered Axisymmetric Objects

### Published In:

International Journal of Current Engineering and Technology IJCET , Vol.3 , No.4 , PP.1299-1306



( 31 )

# A Design And An Equivalent Circuit Of A Quad Band-notched Ultrawide Band Patch Antenna

Ayad Shohdy W. Ghattas & Elsayed Esam M. Khaled

## Abstract:

A proximity feed ultra-wide band (UWB) patch antenna with four notched bands is presented. The proposed antenna introduces UWB performance in the frequency range of 1.9 GHz to 10.3 GHz with omnidirectional radiation pattern. Slots etching techniques are utilized to provide four bands notches at frequencies of 2.3, 2.8, 3.5, and 5.5 GHz to avoid the interference with the existing wireless networks which occupy bands at these frequencies. Furthermore a curve fitting technique is applied to synthesize an equivalent electric circuit model to the proposed antenna. The analysis and design of the proposed antenna were carried out using the commercially available Ansoft high frequency structure simulator (HFSS). The antenna is fabricated and tested. The measured data of the fabricated antenna demonstrate very good agreement with the simulated results and the equivalent circuit results.

## Keywords:

Circuit Modeling, Four Frequency-Band Notches, Patch Antenna, SPICE Equivalent Circuit, Ultra-Wide Band, Vector Fitting

## Published In:

International Journal of Electronics and Communication Engineering (IJECE) , Vol. 2, Issue 4 , PP.139-148



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( 32 )

# A Proximity-fed Elliptical-shaped Aperture UWB Antenna with Triple Band-rejection Property

M. M. M. Ali, A. A. R. Saad, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

34th PIERS Conference Stockholm, Sweden, 12-15 August , NULL , NULL





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( 33 )

# A Microstrip-fed Printed Slot Antenna for 3G/Bluetooth/WiMAX and UWB Applications with 3.6GHz Band Rejection

M. M. M. Ali, A. A. R. Saad, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

34th PIERS Conference, Stockholm, Sweden 12-15 August, , NULL , NULL



---

( 34 )

# Curve-fitting Formulas for Fast Determination of Frequency Band-notched Response of UWB Antennas

A. A. R. Saad, M. M. M. Ali, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

34th PIERS Conference, Stockholm, Sweden, 12-15 August, , NULL , NULL



( 35 )

# Modified Rational Function Modelling Technique for Printed Monopole Antenna for UWB Applications

Mohamed Mamdouh M. Ali, Osama M. Haraz, Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

IEEE Antenna and propagation International Symposium and USNC-URSI National Radio Science Meeting, Orlando, Florida, USA 07-13 July, , NULL , NULL



( 36 )

# A Novel Proximity-Fed UWB Printed Slot Antenna with 3.6/5.5 -GHz Dual Band-Notched Characteristics: Design and Circuit Modeling

Ayman Ayd R. Saad, Elsayed Esam M. Khaled, Deena A. Salem

## Abstract:

NULL

## Keywords:

NULL

## Published In:

The 30th national radio science conference (NRSC, 2013) sponsored by URSI and IEEE, National Telecommunication Institute, Cairo, Egypt 16-18 , NULL , NULL



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( 37 )

# Design and Circuit Modeling of a Novel UWB Printed Split-Ring Resonator Antenna with 5.5 GHz Band Notched Characteristics

Ayman Ayd R. Saad, Deena A. Salem, Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

The 30th national radio science conference (NRSC,2013) sponsored by URSI and IEEE, National Telecommunication Institute, Cairo, Egypt 16-18 , NULL , NULL



( 38 )

# A Proximity-Fed Ultra-Wideband Annular Slot Antenna with Band-Notch Characteristics Via a Split-Ring Parasitic Element

Elsayed E. M. Khaled, Ayman A. R. Saad, and Deena M. Salem

## Abstract:

NULL

## Keywords:

NULL

## Published In:

The 6th European Conference on Antennas and Propagation, EuCAP , Prague Congress Centre, Prague, Czech Republic  
26-30 , NULL , NULL



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( 39 )

## Wide band slotted planar antenna with defected ground structure

Ayman A. R. Saad, Elsayed E. M. Khaled, and Deena M. Salem

### Abstract:

NULL

### Keywords:

NULL

### Published In:

Progress in Electromagnetics Research Symposium, PIERS 2011 in Suzhou, China 12-16 , NULL , NULL



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( 40 )

# Novel design of proximity-fed ultra-wide band annular slot antenn

Ayman A. R. Saad, Elsayed E. M. Khaled, and D. M. Salem

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Progress in Electromagnetics Research Symposium, PIERS 2011 in Suzhou, China 12-16 , NULL , NULL





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( 41 )

## Band-notch patch ultra-wide band antenna

Ayman A. R. Saad, Deena M. Salem, and Elsayed E. M. Khaled

### Abstract:

NULL

### Keywords:

NULL

### Published In:

Progress in Electromagnetics Research Symposium, PIERS 2011 in Suzhou, China 12-16 , NULL , NULL



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( 42 )

# Scattered field intensities of a dielectric spherical particle with concentric or nonconcentric axisymmetric core illuminated with a focused Gaussian beam

E. E. M. Khaled, and Medhat Elgade

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Microscience 2010 conference, Royal Microscience Society, St Clements, Oxford, UK 28 June-01 , NULL , NULL



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( 43 )

# Scattering of a Focused Shifted Laser Beam by a Lossy Spheroidal Particle

E. E. M. Khaled, and H. L. Ibrahim

## Abstract:

NULL

## Keywords:

NULL

## Published In:

The 2009 Frontiers in Optics (FiO)/Laser Science XXV (LS) Conference, OSA annual meeting, San Jose, California, USA  
11-15 , NULL , NULL



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( 44 )

# Scattering of a focused shifted laser beam by an elongated large-size spheroidal particle

E. E. M. Khaled, and H. L. Ibrahim

## Abstract:

NULL

## Keywords:

NULL

## Published In:

OSA annual meeting, 2008 Frontiers in Optics (FiO) Laser Science XXXIV (LS) Conference, Rochester, NY, USA 19-23 ,  
NULL , NULL



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( 45 )

# A Compact Ultra-Wide Band Microstrip Slotted Antenna with Dual Band Notches

Mohamed Mamdouh, Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Scientific journal of Engineering Faculty, JES, Assiut University , 40,6 , 1733-1745



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( 46 )

## "High sensitivity regulated inverter cascade transimpedance amplifier for near infrared spectroscopy"

A. Atef, M. Atef, M. Abbas & Elsayed Esam M. Khaled

### Abstract:

NULL

### Keywords:

NULL

### Published In:

JEC-ECC 2016 conference, Cairo, Egypt, , NULL , NULL



---

( 47 )

# Scattering of a focused laser beam by a cluster of axisymmetric shaped microparticles

Elsayed Esam M. Khaled, and Hany L. S. Ibrahim

## Abstract:

NULL

## Keywords:

NULL

## Published In:

" SPIE Photonics Europe 2016, Square Brussels Meeting Center, Brussels, Belgium 04-07 , NULL , NULL



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( 48 )

# Modelling of an Arbitrarily Focused Laser Beam Scattered by a Cluster of Normal and Abnormal Blood Cell

Hany L. S. Ibrahim and Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

The Microscience Microscopy Congress 2015, MMC2015, Manchester Central, 29 June-02 July UK , NULL , NULL





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( 49 )

# Identification of Abnormal Blood Cells Using Scattering of a Focused Laser Beam by a Cluster

Hany L. S. Ibrahim, and Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Progress in Electromagnetics Research Symposium (PIERS), Prague, Czech Republic 06-04 July , NULL , NULL



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( 50 )

# A Compact Proximity-fed Ultra-wide Band Patch Antenna with Four Notched-band Characteristics: Design and Implementation

Ayad Shohdy W. Ghattas and Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

9th International Symposium on Communication Systems, Networks & Digital Signal (CSNDSP), London 21-23 July , NULL  
, NULL



---

( 51 )

# Light scattering by a cluster consisting of homogeneous axisymmetric particles illuminated with an arbitrarily focused electromagnetic Gaussian beam

Hany L. S. Ibrahim, Thomas Wriedt, and Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Journal of Quantitative Spectroscopy & Radiative Transfer , Vol. 173 , pp. 83 -91



---

( 52 )

# Implementation and Justification of a Triple Frequency-Notched UWB Proximity-Fed Antenna with Shunt Stubs

A. A. R. Saad, M. M. M. Ali, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Microwave and Optical Technology Letters, Vol. 56, No. 3, pp. 646-654 , NULL , NULL



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( 53 )

## Band-Notched UWB Annular Slot Antenna with Enhanced Bandwidth by Using EBG Via Holes

A. A. R. Saad, D. A. Salem, and E. E. M. Khaled

### Abstract:

NULL

### Keywords:

NULL

### Published In:

International Journal of Communications, Issue 1, V. 7, pp. 67-74 , NULL , NULL



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( 54 )

## An Integrated 3G/Bluetooth and UWB Antenna with a Frequency Band-notched Feature

A. A. R. Saad, M. M. M. Ali, and E. E. M. Khaled,

### Abstract:

NULL

### Keywords:

NULL

### Published In:

Journal of Electromagnetic Waves and Applications, Vol. 27, No. 18, pp. 2430-2441 , NULL , NULL



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( 55 )

# Prediction formulas of a notched frequency response of a printed ultra-wideband antenna loaded with notching resonators

A. A. R. Saad, M. M. M. Ali, and E. E. M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Journal of Engineering, doi: 10.1049/joe.2013.0127 , NULL , NULL



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( 56 )

" 1.44mW and 60 dB dynamic range optical receiver for near infrared spectroscopy,"

A. Atef, M. Atef, M. Abbas, Elsayed Esam M. Khaled

**Abstract:**

NULL

**Keywords:**

NULL

**Published In:**

IEEE ICM2016 Conference,Cairo,Egypt , NULL , NULL





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( 57 )

## "Low-power transimpedance amplifier for near infrared spectroscopy"

A. Atef, M. Atef, M. Abbas, Elsayed Esam M. Khaled

### Abstract:

NULL

### Keywords:

NULL

### Published In:

IEEE IEEE ISCAS2016 conference, Montreal,Canada , NULL , NULL



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( 58 )

## "A Compact Ultra-Wide Band Microstrip Patch Antenna Designed for Ku/K Bands Applications "

Ayad Shohdy W. Ghattas and Elsayed Esam M. Khaled

### Abstract:

NULL

### Keywords:

NULL

### Published In:

Japan-Africa Conference on Electronics, Communications and Computer, JAC-ECC 18-20 , NULL , NULL



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( 59 )

# Design of Two Compact Ultra Wideband Microstrip Patch Antennas for Ku/K Band Operations

Ayad Shohdy W. Ghattas and Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Progress in Electromagnetics Research Symposium (PIERS), Prague, Czech Republic, 06-09 , NULL , NULL



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( 60 )

## Light scattering from a cluster consists of dielectric nonconcentric encapsulation particles

Hany L. S. Ibrahim, and Elsayed Esam M. Khaled

### Abstract:

NULL

### Keywords:

NULL

### Published In:

International Journal of Electronics and Communication Engineering & Technology (IJECET) , Vol. 5 - Issue. 1 , pp. 82-94



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( 61 )

# A compact proximity-fed Quad band-notched ultra-wideband patch antenna

Ayad Shohdy W. Ghattas, and Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

International Journal of Electronics and Communication Engineering & Technology (IJECET), , Vol. 5 - Issue. 1 , pp. 43-51



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( 62 )

# A Compact Ultra-Wide Band Microstrip Slotted Antenna with Dual Band Notches

Mohamed Mamdouh, Elsayed Esam M. Khaled

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Scientific journal of Engineering Faculty, JES, Assiut University , Vol. 40 - No. 6 , pp.1733-1745



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( 63 )

# Temporal behavior of short optical pulses scattered by small particles

E. E. M. Khaled and AM. Elhasan

## Abstract:

NULL

## Keywords:

Temporal behavior of short optical pulses scattered by small particles

## Published In:

Minia 1st conference in engineering and technology (MFCET), El-Minia University, ElMinia, Egypt, , NULL , NULL



( 64 )

## Multiple scattering of a focused laser beam by a cluster consisting of nonconcentric encapsulated particles

Hany L.S.Ibrahima Elsayed Esam M.Khaled

### Abstract:

The optical characteristics of a cluster consisting of zinc sulfide (ZnS) particles doped with a nonconcentric spherical copper (Cu) cores illuminated with an arbitrarily focused Gaussian beam are investigated. The presented aggregations of nonconcentric doped particles (i.e. core with offset origin) form linear chains or densely packed clusters. The laser beam is modeled using angular spectrum of plane waves method and then combined with the cluster T-matrix method which is modified to solve such difficult multiple scattering problem. This combination provides a powerful mathematical technique to obtain the phase (scattering) matrix of a cluster illuminated with any incident electromagnetic fields. The scattering matrix provides complete descriptions of the scattering characteristics in the far field zone. The computed results are shown for different beam waists with respect to the cluster. The scattering processes and its results help understanding many cluster characteristics and nonlinear processes. The presented numerical results show that the elements of the scattering matrix are sensitive to the focusing of the incident beam and characteristics of the cluster constituents. The illustrated results are important for researches aim to improve polymer properties and to study several branches of practical sciences and industries such as nanotechnology, pharmaceuticals, chemistry, and biology. This paper represents the first attempt to study the multiple scattering from a cluster of nonspherical particles with nonconcentric spherical cores illuminated by an arbitrarily focused laser beam.

### Keywords:

NULL

### Published In:

Journal of Quantitative Spectroscopy and Radiative Transfer , NULL , NULL





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( 65 )

# Fully integrated wide dynamic range optical receiver for Near Infrared Spectroscopy

Ahmed Atef, Mohamed Atef, Mohamed Abbas, Elsayed Esam M. Khaled, Guoxing Wang,

## Abstract:

NULL

## Keywords:

NULL

## Published In:

Microelectronics Journal , pp. 92-97 , pp. 92-97



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( 66 )

## Multi-band slot loaded microstrip antenna for breast imaging

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### Abstract:

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