

Netsivi Ben-Amots: Some publications on dynamics

RELATIVISTIC DYNAMICS and ASTROPHYSICS

[14] Ben-Amots, N., Relativity, Gravitation, and Relativistic Rotation: Clarifying some paradoxes of relativity at the extreme, a **book**, 474 pages, Technology Dynamics inc., Bergenfield, New Jersey, U.S.A. (2017).

Ordering information of the book from the publisher:

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<http://www.netsivi.org/book.htm>

<https://www.technologydynamicsinc.com/book-relativity-2017/>

One page overview: [HTM](#) [PDF](#)

[1] Ben-Amots, N.,

Basic aspect of relativistic rotation: Franklin rotation of a sphere,
Found. Phys., v. 33, pp. 1369-1372 (2003)

[Abstract](#)

[2] Ben-Amots, N.,

Detection of rotation by a local elevator-like gedanken experiment,
Found. Phys., v. 35, pp. 1533-1542 (2005)

[Abstract](#)

[3] Ben-Amots, N.,

Relativistic exponential gravitation and exponential potential
of electric charge,

Found. Phys., v 37, No. 4-5, pp. 773-787 (2007)

[Abstract](#)

[9] Ben-Amots, N.,

A new line element derived from the variable rest mass in
gravitational field,

arXiv:0808.2609v1 (8.2008)

Endorser: Professor Vladimir Majernik (1934-2017)

[Abstract](#)

[Fulltext in arXiv](#)

[Fulltext with updated reference 56](#)

[10] Ben-Amots, N.,

Some features and implications of exponential gravitation,
J. Phys.: Conf. Ser., v. 330, 012017 (2011)

[Abstract](#)

[Fulltext](#)

[11] Ben-Amots, N.,
Relativistic Radial Expansion: Do we need Dark Energy?,
J. Phys.: Conf. Ser., v. 330, 012018 (2011)

[Abstract](#)

[Fulltext](#)

[12] Ben-Amots, N.,
Energy accumulation in relativistic sub-Bohr orbitals,
Franklin's relativistic rotation of quarks and gravitational field
bounceback as processes relevant to explosion of supernovae,
J. Phys.: Conf. Ser., v. 615, 012012 (2015)

[Abstract](#)

[Fulltext](#)

NEWTONIAN DYNAMICS and ROTATION

[4] Ben-Amots, N.,
Approximate analytical solution for high-speed spin axisymmetric
rotor, using coordinate system linked to precession and nutation,
Acta Mechanica, v. 25, pp. 111-119 (1976)

[Abstract](#)

[5] Bousso, D. (1933-1971), Ben-Amots, N.,
A simple means for attaining high centrifugal accelerations,
J. Phys. E: Scientific Instruments, v. 5, pp. 291-295 (1972)

[Abstract](#)

[13] Ben-Amots, N.,
Dynamics and thermodynamics of tornado: Rotation effects
Atmos. Res., v. 178-179, pp. 320-328 (1 September 2016)
doi:10.1016/j.atmosres.2016.03.025

[Abstract and fulltext in journal responses](#) available in internet May 2016

[6] Ben-Amots, N.,
The motion of a high-speed rotor under the influence of a
moment perpendicular to the axes of precession and nutation
D.Sc. thesis, Technion, Haifa, Israel (1976), in Hebrew

[Abstract \(English\)](#)

There is a partial review in English in Cohen and Porat* (1984)

[7] Ben-Amots, N.,
The dynamical behavior of a rotor on a belt suspension drive
M.Sc. thesis, Technion, Haifa, Israel (1969), in Hebrew
[Synopsis \(English\)](#)

[20] Bouso, D. (1933-1971), Ben-Amots, N.,
A new method for obtaining large centrifugal accelerations.
Proceedings of the 3rd Israel Conference on Mechanical
Engineering, and the 17th Israel Annual Conference on
Theoretical and Applied Mechanics, Technion, Haifa, Israel
(June 1969), in Hebrew
[Abstract \(English\)](#)

Some non-dynamic publications and notes

LIFE and BRAIN MYSTERIES

[8] Ben-Amots, N., Anbar, M. (1927-2014),
Sonochemistry on premordial Earth – its potential role in prebiotic
molecular evolution,
Ultrasonic Sonochemistry, v. 14, No. 5, pp. 672-675 (2007)
[Abstract \(Origin of life\)](#)

[15] Ben-Amots, N.,
On tinnitus - the origin of the unexplained annoying whistle:
TITLE: Is tinnitus a hearing overamplification in the brain?
netsivi.org (2015)
[Abstract](#)
[Fulltext](#)

[16] Ben-Amots, N.,
TITLE: Left side right
netsivi.org (2007)
[Fulltext \(Brain\)](#)

[17] Ben-Amots, N.,
TITLE: Waking up paralyzed
netsivi.org (2006)
[Fulltext \(Brain: Sleep\)](#)

notes

[18] Ben-Amots, N.,

TITLE: An animal also has soul - on whales
netsivi.org (2009, 2014)
[Fulltext \(Whales\)](#)

[19] Ben-Amots, N.,
TITLE: On King Solomon's Ring - about one word in animals'
language
netsivi.org (2009, 2014)
[Fulltext \(Animals' language\)](#)

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* – Cohen, R., Porat, I. (1934-2012), Influence of load torque on stability of rotor driven by flexible shaft, J. Sound Vib., v. 95, pp. 151-160 (1984). See pp. 151, 159.
– All abstracts are available (in English) in this internet site
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