

ANTENTOP

ANTENTOP 01 2009 # 011

ANTENTOP is **FREE** e-magazine devoted to **ANTENna's**

1-2009

**Theory,
Operation, and
Practice**

Edited by hams for hams

***In the Issue:
Antennas Theory!***

***Practical design of HF-VHF- UHF
Antennas!***

Home brew Technique!

Propagation!

QRP!

And More....

***RU3ARJ Compact Cage
Antenna for 435 MHz***



**DEWD – Famous
invention of UR0GT**



EDITORIAL:

Well, my friends, new ANTENTOP – 01 -2009 come in! ANTENTOP is just authors' opinions in the world of amateur radio. I do not correct and re-edit yours articles, the articles are printed "as are". A little note, I am not a native English, so, of course, there are some sentence and grammatical mistakes there... Please, be indulgent!

ANTENTOP 01 –2009 contains antenna articles, some description of antenna patents, QRP- Stuff. Hope it will be interesting for you.

Our pages are opened for all amateurs, so, you are welcome always, both as a reader as a writer.

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73! Igor Grigorov, VA3ZNV

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op: UK3ZAM, UK5LAP, EN1NWB, EN5QRP, EN100GM

Thanks to our authors:

Prof. Natalia K.Nikolova

Nick Kudryavchenko, UR0GT

I.Kapustin, UA0RW

Vladislav Shcherbakov, RU3ARJ,

Yuri Medinets, UB5UG,

V. Polyakov, RA3AAE

And others.....



Contact us: Just email me or drop a letter.

Mailing address:
209- 5879 Bathurst Str., Toronto,
ON, M2R1Y7, CANADA

Or mail to: antentop@antentop.org
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Welcome to ANTENTOP, FREE e - magazine!

ANTENTOP is **FREE e- magazine**, made in **PDF**, devoted to antennas and amateur radio. Everyone may share his experience with others hams on the pages. Your opinions and articles are published without any changes, as I know, every your word has the mean.

Every issue of ANTENTOP is going to have 100 pages and this one will be paste in whole on the site. Preview's files will be removed in this case. I do not know what a term for one issue will need, may be 8-10 month or so. A whole issue of ANTENTOP hold nearly 10 MB.

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and, they will do this work, and we will see lots interesting articles there.

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op: UK3ZAM, UK5LAP, EN1NWB, EN5QRP, EN100GM

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- 1 Dear friends, I would like to give to you an interesting and reliable antenna theory. Hours searching in the web gave me lots theoretical information about antennas. Really, at first I did not know what information to chose for ANTENTOP.
- Now I want to present to you one more very interesting Lecture - it is a Lecture **Aperture Antennas – Part I**. I believe, you cannot find such info anywhere for free! Very interesting and very useful info for every ham, for every radio-engineer.
- The uniqueness theorem. The equivalence principle. The application of the equivalence principle to aperture problem. The uniform rectangular aperture. The tapered rectangular aperture.*
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HF- Antenna Practice

Compact Cage Antenna: by: Vladislav Shcherbakov, RU3ARJ

- 2 Everyone knows “classical” quad antenna. Its perimeter is equal to wavelength. Each side of the quad is 1/4 wavelength. Amplification of the “classical” quad antenna is 3-dBi, input impedance (in a free space) is close to 120-Ohm. Good antenna but the size!
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Antennas by Nikolay Kudryavchenko, UR0GT

- 3 **Antentop** (from the issue) begin to publish antennas designed by Nick Kudryavchenko, UR0GT. No changes (compare to previous their publishing in the Internet) are added to the description and MMANA files of the antennas.
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	A variant Broadband Avia Antenna that has directivity due reflector and director.	
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	“Foreign Military Weapons and Equipment” Volume VI	
21	<p>Signal Equipment Department of the Army Pamphlet no 30-11-1</p> <p>The Pamphlet was published at 1951. At the time the book was a Secret, Restricted Book. However, at our times- 2009, there is no secret in the book. The book is freely sold at different points in the Internet. Just do googling and find out lots data.</p> <p>I managed to find in the internet a part of the book in the pdf. The part is available in the Library at Antentop site.</p>	81
22	<p>Receiving Magnetic Loop Antennas By Igor Grigorov, RK3ZK</p> <p>If you can read in Russian you can download a free 56- pages e- book “Receiving Magnetic Loop Antennas” by Igor Grigorov, RK3ZK. The book is e-variant of a chapter from a paper book “Antennas for Radioamateurs printed in Russia”. Some fragment of the book was translated in the English and was published (and, as I hope, will be published) at ANTENTOP. Other fragments of the book also going to be translated in the English.</p>	82- 83
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