

MR2542298 26D15

Liu, Wenjun [**Liu, Wen Jun**³] (PRC-NUIST-MP);
Quốc-Anh Ngô [**Ngô, Quốc Anh**] (VN-VNU-NS); **Vu Nhat Huy** (VN-VNU-NS)

Several interesting integral inequalities. (English summary)

J. Math. Inequal. **3** (2009), no. 2, 201–212.

{A review for this item is in process.}

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MR2536811 26D15 (65D30)

Huy, Vu Nhat [**Vu Nhat Huy**] (VN-VNU-NS); **Ngô, Quốc-Anh** (VN-VNU-NS)

New inequalities of Ostrowski-like type involving n knots and the L^p -norm of the m -th derivative. (English summary)

Appl. Math. Lett. **22** (2009), no. 9, 1345–1350.

{A review for this item is in process.}

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MR2536655 26A24 (39A10)

Ngô, Quốc-Anh (VN-VNU-NS)

Some mean value theorems for integrals on time scales. (English summary)

Appl. Math. Comput. **213** (2009), no. 2, 322–328.

{There will be no review of this item.}

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MR2513599 35J60 (35J20 58E05)

Ngô, Quôc-Anh (VN-VNU-NS)

Existence results for a class of non-uniformly elliptic equations of p -Laplacian type. (English summary)

Anal. Appl. (Singap.) **7** (2009), no. 2, 185–197.

{A review for this item is in process.}

References

1. A. Ambrosetti and P. H. Rabinowitz, Dual variational methods in critical point theory and applications, *J. Funct. Anal.* **14** (1973) 349–381. [MR0370183 \(51 #6412\)](#)
2. G. Bonanno, Some remarks on a three critical points theorem, *Nonlinear Anal.* **54** (2003) 651–665. [MR1983441 \(2004d:49010\)](#)
3. D. G. Costa, *An Invitation to Variational Methods in Differential Equations* (Birkhäuser, 2007). [MR2321283 \(2008k:58033\)](#)
4. G. Dincă, P. Jebelean and J. Mawhin, A result of Ambrosetti–Rabinowitz type for p -Laplacian, in *Qualitative Problems for Differential Equations and Control Theory*, ed. C. Corduneanu (World Sci. Publ., River Edge, NJ, 1995), pp. 231–242. [MR1372755 \(96m:35097\)](#)
5. G. Dincă, P. Jebelean and J. Mawhin, Variational and topological methods for Dirichlet problems with p -Laplacian, *Portugaliae Math.* **58** (2001) 340–377. [MR1856715 \(2002j:35116\)](#)
6. D. M. Duc, Nonlinear singular elliptic equations, *J. London Math. Soc.* **40**(2) (1989) 420–440. [MR1053612 \(91g:35107\)](#)
7. D. M. Duc and N. T. Vu, Nonuniformly elliptic equations of p -Laplacian type, *Nonlinear Anal.* **61** (2005) 1483–1495. [MR2135821 \(2005k:35111\)](#)
8. I. Ekeland and N. Ghoussoub, Selected new aspects of the calculus of variations in the large, *Bull. Amer. Math. Soc.* **39**(2) (2002) 207–265. [MR1886088 \(2003b:35048\)](#)
9. A. Kristály, H. Lisei and C. Varga, Multiple solutions for p -Laplacian type equations, *Nonlinear Anal.* **61** (2008) 1375–1381. [MR2381678 \(2009h:35139\)](#)
10. M. Mihăilescu, Existence and multiplicity of weak solutions for a class of degenerate nonlinear elliptic equations, *Bound. Value Probl.* **2006** (2006) Art. ID 41295, 17 pp. [MR2211397 \(2006j:35084\)](#)
11. P. de Nápoli and M. C. Mariani, Mountain pass solutions to equations of p -Laplacian type, *Nonlinear Anal.* **54** (2003) 1205–1219. [MR1995926 \(2004e:35065\)](#)
12. Q.-A. Ngô and H. Q. Toan, Existence of solutions for a resonant problem under Landesman-Lazer conditions, *Electron. J. Differential Equations* **2008** (2008) No. 98, 10 pp. [MR2430895 \(2009h:35149\)](#)
13. Q.-A. Ngô and H. Q. Toan, Some remarks on a class of nonuniformly elliptic equations of p -Laplacian type, *Acta Appl. Math.* (2008); doi:10.1007/s10440-008-9291-6. [MR2497405](#)

14. B. Ricceri, On a three critical points theorem, *Arch. Math.* **75** (2000) 220–226. [MR1780585 \(2001h:49012\)](#)
15. B. Ricceri, Existence of three solutions for a class of elliptic eigenvalue problems, *Math. Comput. Modelling* **32** (2000) 1485–1494. [MR1800671 \(2001j:35220\)](#)
16. H. Q. Toan and Q.-A. Ngô, Multiplicity of weak solutions for a class of nonuniformly elliptic equations of p -Laplacian type, *Nonlinear Anal.* **70** (2009) 1536–1546. [MR2483577](#)

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MR2497405 [35J60](#) ([47J30](#) [58E05](#))

Ngô, Quốc Anh (VN-VNU); **Toan, Hoang Quoc [Hàng Quốc Toan]** (VN-VNU)

Some remarks on a class of nonuniformly elliptic equations of p -Laplacian type. (English summary)

Acta Appl. Math. **106** (2009), no. 2, 229–239.

{A review for this item is in process.}

References

1. Arcoya, D., Orsina, L.: Landesman–Lazer conditions and quasilinear elliptic equations. *Nonlinear Anal.* **28**, 1623–1632 (1997) [MR1430505 \(97m:35060\)](#)
2. Bouchala, J., Drábek, P.: Strong resonance for some quasilinear elliptic equations. *J. Math. Anal. Appl.* **245**, 7–19 (2000) [MR1756573 \(2001c:35031\)](#)
3. Costa, D.G.: *An Invitation to Variational Methods in Differential Equations*. Birkhauser, Basel (2007) [MR2321283 \(2008k:58033\)](#)
4. Duc, D.M., Vu, N.T.: Nonuniformly elliptic equations of p -Laplacian type. *Nonlinear Anal.* **61**, 1483–1495 (2005) [MR2135821 \(2005k:35111\)](#)
5. Mihailescu, M.: Existence and multiplicity of weak solutions for a class of degenerate nonlinear elliptic equations. *Bound. Value Probl.* **41295**, 1–17 (2006) [MR2211397 \(2006j:35084\)](#)
6. De Nápoli, P., Mariani, M.C.: Mountain pass solutions to equations of p -Laplacian type. *Nonlinear Anal.* **54**, 1205–1219 (2003) [MR1995926 \(2004e:35065\)](#)
7. Tang, C.-L.: Solvability for two-point boundary value problems. *J. Math. Anal. Appl.* **216**, 368–374 (1997) [MR1487269 \(98i:34041\)](#)
8. Tang, C.-L.: Solvability of the forced Duffing equation at resonance. *J. Math. Anal. Appl.* **219**, 110–124 (1998) [MR1607110 \(98j:34079\)](#)
9. Toan, H.Q., Ngo, Q.-A.: Multiplicity of weak solutions for a class of nonuniformly elliptic equations of p -Laplacian type. *Nonlinear Anal.* (2008). doi:10.1016/j.na.2008.02.033 [MR2483577](#)

10. Vu, N.T.: Mountain pass theorem and nonuniformly elliptic equations. Vietnam J. Math. **33**(4), 391–408 (2005) [MR2200236 \(2006j:35085\)](#)

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MR2483577 35J60 (35D05 35J20 47J30)

Toan, Hoang Quoc [Hoàng Quốc Toan] (VN-VNU-NS); **Ngô, Quốc-Anh** (VN-VNU-NS)

Multiplicity of weak solutions for a class of nonuniformly elliptic equations of p -Laplacian type. (English summary)

Nonlinear Anal. **70** (2009), no. 4, 1536–1546.

{A review for this item is in process.}

References

1. R.A. Adams, Sobolev Spaces, Academic Press, London, 1975. [MR0450957 \(56 #9247\)](#)
2. G. Dinca, P. Jebelean, J. Mawhin, Variational and topological methods for Dirichlet problems with p -Laplacian, Portugaliae Math. 58 (2001) 340–377. [MR1856715 \(2002j:35116\)](#)
3. M. Struwe, Variational Methods, Springer, New York, 1996.

Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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MR2471390 (2009j:26033) 26D15 (39A10)

Ngô, Quốc Anh (VN-VNU-NS); **Liu, Wenjun [Liu, Wen Jun³]** (PRC-NUIST-MP)

A sharp Grüss type inequality on time scales and application to the sharp Ostrowski-Grüss inequality. (English summary)

Commun. Math. Anal. **6** (2009), no. 2, 33–41.

In this paper the authors prove sharp Grüss and weighted Grüss type inequalities for general time scales. A sharp Grüss type inequality is used in proving the sharp Ostrowski-Grüss inequality on

time scales. The authors obtain well-known and new results by applying the sharp Grüss type inequality in different time scales $\mathbb{T} = \mathbb{R}, \mathbb{Z}$ and $q^{\mathbb{N}_0}$.

Reviewed by [Hassan Ahmed Agwo](#)

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MR2479697 35J60 (35J55)

Cardoulis, Laure (F-TOUL-CR); **Ngô, Quốc Anh** (VN-VNU-MIS);

Toan, Hoang Quoc [Hoàng Quốc Toan] (VN-VNU-MIS)

Existence of non-negative solutions for cooperative elliptic systems involving Schrödinger operators in the whole space. (English summary)

Rostock. Math. Kolloq. No. 63 (2008), 63–77.

{A review for this item is in process.}

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MR2465495 (2009j:26030) 26D15 (39A10 65D30)

Liu, Wenjun [Liu, Wen Jun³] (PRC-NUIST-MP);

Quốc Anh Ngô [Ngô, Quốc Anh] (VN-VNU-NS); **Chen, Wenbing** (PRC-NUIST-MP)

A perturbed Ostrowski-type inequality on time scales for k points for functions whose second derivatives are bounded. (English summary)

J. Inequal. Appl. **2008**, Art. ID 597241, 12 pp.

In this paper the authors derive an Ostrowski-type inequality for k points on arbitrary time scales. This result generalizes the corresponding continuous time result from [A. Sofo and S. S. Dragomir, *Turkish J. Math.* **25** (2001), no. 3, 379–412; [MR1864141 \(2002h:41048\)](#)]. The discrete time result is new. The main result is also an extension of this type of result from the number of points $k = 2$ in [Q. A. Ngô and W. J. Liu, “An Ostrowski type inequality on time scales for functions whose second derivatives are bounded”, in *Inequality theory and applications. Vol. 6*, to appear]. A very similar result to the one in this paper can be found in [Appl. Math. Comput. **203** (2008), no. 2, 754–760; [MR2458991](#)], where Liu and Ngô considered the boundedness of the first-order derivative f^Δ compared to the boundedness of the second-order derivative $f^{\Delta\Delta}$ in the present paper. The method of proof is the same as the method for the continuous time case. Examples of special perturbed

Ostrowski-type inequalities on time scales (as consequences of the main result) are given in the last section of the paper.

Reviewed by *Roman Šimon Hilscher*

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From References: 0

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MR2458991 26D15 (39A10)

Liu, Wenjun [Liu, Wen Jun³] (PRC-NUIST-MP); Ngô, Quôc-Anh (VN-VNU-NS)

A generalization of Ostrowski inequality on time scales for k points. (English summary)

Appl. Math. Comput. **203** (2008), no. 2, 754–760.

{There will be no review of this item.}

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MR2458264 (2009g:26028) 26D15 (26A06)

Ngô, Quôc-Anh (VN-VNU-NS); Qi, Feng (PRC-HNPU-MIT);

Thu, Ninh Van [Ninh Van Thu] (VN-VNU-NS)

New generalizations of an integral inequality. (English summary)

Real Anal. Exchange **33** (2008), no. 2, 471–474.

The authors prove the following result: Let $f : [a, b] \rightarrow [0, \infty)$ be a continuous function and $g : [a, b] \rightarrow [0, \infty)$ be a continuous non-decreasing function such that

$$(1) \quad \int_x^b f(t) dt \geq \int_x^b g(t) dt$$

for all $x \in [a, b]$. Then

$$(2) \quad \int_a^b h(f(t)) dt \geq \int_a^b h(g(t)) dt$$

holds for every convex function h such that $h' \geq 0$ and h' is integrable on $[0, \infty)$. In the case in which f is as above and $g : [a, b] \rightarrow [0, \infty)$ is a continuous non-increasing function such that the reverse of (1) holds, inequality (2) is valid for every convex function h such that $h' \leq 0$ and h' is

integrable on $[0, \infty)$.

Reviewed by *Stamatis Koumandos*

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From References: 1

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Article

MR2430895 (2009h:35149) 35J60 (35J20 47J30 58E05)

Ngô, Quốc Anh (VN-VNU-NS); Toan, Hoang Quoc [Hàng Quốc Toan] (VN-VNU-NS)

Existence of solutions for a resonant problem under Landesman-Lazer conditions. (English summary)

Electron. J. Differential Equations **2008**, No. 98, 10 pp.

Summary: “This article shows the existence of weak solutions in $W_0^1(\Omega)$ for a class of Dirichlet problems of the form

$$-\operatorname{div}(a(x, \nabla u)) = \lambda_1 |u|^{p-2} u + f(x, u) - h$$

in a bounded domain $\Omega \subset \mathbb{R}^N$. Here $a : \Omega \times \mathbb{R}^N \rightarrow \mathbb{R}^N$ satisfies

$$|a(x, \xi)| \leq c_0(h_0(x) + h_1(x)|\xi|^{p-1}),$$

for all $\xi \in \mathbb{R}^N$, a.e. $x \in \Omega$, in which $h_0 \in L^{\frac{p}{p-1}}(\Omega)$, $h_1 \in L_{\text{loc}}^1(\Omega)$ satisfies $h_1(x) \geq 1$ for a.e. $x \in \Omega$, λ_1 is the first eigenvalue for $-\Delta_p$ on Ω with zero Dirichlet boundary condition and f and h satisfy some suitable conditions.”

References

1. R. A. Adams and J. J. F. Fournier; *Sobolev spaces*, Academic Press, London, 2003. [MR2424078 \(2009e:46025\)](#)
2. A. Ambrosetti and Rabinowitz; Dual variational methods in critical point theory and applications, *J. Funct. Anal.* **14** (1973), 349–381. [MR0370183 \(51 #6412\)](#)
3. A. Anane and J. P. Gossez; Strongly nonlinear elliptic problems near resonance: a variational approach, *Comm. Partial Diff. Eqns.* **15** (1990), 1141–1159. [MR1070239 \(91h:35121\)](#)
4. D. Arcoya and L. Orsina; Landesman-Lazer conditions and quasilinear elliptic equations, *Nonlinear Analysis* **28** (1997), 1623–1632. [MR1430505 \(97m:35060\)](#)
5. L. Boccardo, P. Drabek and M. Kucera; Landesman-Lazer conditions for strongly nonlinear boundary value problem, *Comment. Math. Univ. Carolinae* **30** (1989), 411–427. [MR1031859 \(90k:35101\)](#)
6. D. G. Costa; *An invitation to variational methods in differential equations*, Birkhauser, 2007. [MR2321283 \(2008k:58033\)](#)
7. G. Dinca, P. Jebelean, J. Mawhin; Variational and topological methods for Dirichlet problems with p -Laplacian, *Portugaliae Math.* **58** (2001), 340–377. [MR1856715 \(2002j:35116\)](#)

8. D. M. Duc; Nonlinear singular elliptic equations, *J. London Math. Soc.* (2) **40** (1989), 420–440. [MR1053612 \(91g:35107\)](#)
9. D. M. Duc and N. T. Vu; non-uniformly elliptic equations of p -Laplacian type, *Nonlinear Analysis* **61** (2005), 1483–1495. [MR2135821 \(2005k:35111\)](#)
10. E. M. Landesman and A. C. Lazer; Nonlinear perturbations of linear elliptic problems at resonance, *J. Math. Mech.* **19** (1970), 609–623. [MR0267269 \(42 #2171\)](#)
11. Mihai Mihăilescu; Existence and multiplicity of weak solutions for a class of degenerate nonlinear elliptic equations, *Boundary Value Problems* Article ID **41295** (2006), 1–17. [MR2211397 \(2006j:35084\)](#)
12. P. De Nápoli and M. C. Mariani; Mountain pass solutions to equations of p -Laplacian type, *Nonlinear Analysis* **54** (2003), 1205–1219. [MR1995926 \(2004e:35065\)](#)
13. Q.-A. Ngo and H. Q. Toan, Some remarks on a class of non-uniformly elliptic equations of p -Laplacian type, *submitted*.
14. P. H. Rabinowitz; *Minimax methods in critical point theory with applications to differential equations*, A.M.S., 1986. [MR0845785 \(87j:58024\)](#)
15. H.Q. Toan and Q.-A.Ngo; Multiplicity of weak solutions for a class of non-uniformly elliptic equations of p -Laplacian type, *Nonlinear Analysis* (2008), doi:10.1016/j.na.2008.02.033. [MR2483577](#)
16. N.T. Vu; Mountain pass theorem and non-uniformly elliptic equations, *Vietnam J. of Math.* **33**:4 (2005), 391–408. [MR2200236 \(2006j:35085\)](#)

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Citations
From References: 0
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MR2320614 (2008e:26023) 26D15

Quốc Anh Ngô [Ngô, Quốc Anh] (VN-VNU-MIS); Pham Huy Tung (5-MELB-MS)

Notes on an open problem of F. Qi and Y. Chen and J. Kimball. (English summary)

JIPAM. J. Inequal. Pure Appl. Math. **8** (2007), no. 2, Article 41, 4 pp. (electronic).

In this paper the authors give an answer to an open problem proposed by F. Qi [*JIPAM. J. Inequal. Pure Appl. Math.* **1** (2000), no. 2, Article 19, 3 pp. (electronic); [MR1786406 \(2001e:26036\)](#)] and Y. Chen and J. F. Kimball [*JIPAM. J. Inequal. Pure Appl. Math.* **7** (2006), no. 1, Article 4, 4 pp. (electronic); [MR2217167 \(2007b:26032\)](#)]. In Theorem 2.2 the authors prove the following: Let n be a positive integer. Suppose $f(x)$ has a continuous derivative of the n -th order on the

interval $[a, b]$ such that $f^{(i)}(a) = 0$, where $0 \leq i \leq n - 1$, and $f^{(n)}(x) \geq \frac{n!}{(n+1)^{(n-1)}}$. Then

$$\int_a^b f^{n+2}(x) dx \geq \left(\int_a^b f(x) dx \right)^{n+1}.$$

In this theorem the authors use a technique that was introduced by Qi [op. cit.].

Reviewed by *Božidar Tpeš*

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MR2268574 (2007g:26035) 26D15

Ngô, Quốc Anh (VN-VNU-MIS); **Thang, Du Duc** [**Du Duc Thang**] (VN-VNU-MIS);
Dat, Tran Tat [**Tran Tat Dat**] (VN-VNU-MIS);
Tuan, Dang Anh [**Dang Anh Tuan**] (VN-VNU-MIS)

Notes on an integral inequality. (English summary)

JIPAM. J. Inequal. Pure Appl. Math. **7** (2006), no. 4, Article 120, 5 pp. (electronic).

From the introduction: “Let $f(x)$ be a continuous function on $[0, 1]$ satisfying

$$(1.1) \quad \int_x^1 f(t) dt \geq \frac{1-x^2}{2}, \quad \forall x \in [0, 1].$$

First, we consider the integral inequality (1.2) below. Lemma 1.1. If (1.1) holds then we have

$$(1.2) \quad \int_0^1 [f(x)]^2 dx \geq \int_0^1 x f(x) dx.$$

“The aim of this paper is to generalize (1.2) in order to obtain some new integral inequalities. In the first part of this paper, we will prove Lemma 1.1 and present some preliminary results. Our main results are Theorem 2.1 and Theorem 2.2, which will be proved in Section 2; and Theorem 3.2 and Theorem 3.3, which will be proved in Section 3. Finally, an open question is proposed.”

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MR2181273 (2006e:35077) 35J55 (35J50 35J60)

Ngô, Quô'c Anh (VN-VNU-MIS)

An application of the Lyapunov-Schmidt method to semilinear elliptic problems. (English summary)

Electron. J. Differential Equations **2005**, No. 129, 11 pp. (electronic).

Summary: “In this paper we consider the existence of nonzero solutions for the undecoupling elliptic system

$$\begin{aligned}-\Delta u &= \lambda u + \delta v + f(u, v), \\ -\Delta v &= \theta u + \gamma v + g(u, v),\end{aligned}$$

on a bounded domain of \mathbb{R}^n , with zero Dirichlet boundary conditions. We use the Lyapunov-Schmidt method and the fixed-point principle.”

References

1. S. Ahmad and A. Lazer and J. Paul, Elementary critical point theory and perturbation of elliptic boundary value problems at resonance, *Indiana Univ. Math. J.* **25** (1976), 933–944. [MR0427825 \(55 #855\)](#)
2. A. Ambrosetti and G. Mancini, Existence and multiplicity results for nonlinear elliptic problems with linear part at resonance. The case of the simple eigenvalue, *J. Diff. Equations* **28** (1978), 220–245. [MR0492839 \(58 #11901\)](#)
3. A. Anane, *Etude des valeurs propres et la resonance pour le operateur P-Laplacian*, Ph. D. Thesis, Univ. Bruxelles, 1988.
4. K. J. Brown, Spatially inhomogeneous steady-state solutions for systems of equations describing interacting populations, *J. Math. Anal. Appl.* **95** (1983), 251–264. [MR0710432 \(85a:35032\)](#)
5. H. Berestycki and D. De Figueiredo, Double resonance in semilinear elliptic problems, *Comm. Partial Diff. Equations* **6** (1981), 91–120. [MR0597753 \(82f:35078\)](#)
6. P. Bartolo and V. Benci and D. Fortunato, Abstract critical point theorems and applications to some nonlinear problems with strong resonance, *Nonlinear Analysis T.M.A.* **7** (1983), no. 9, 981–1012. [MR0713209 \(85c:58028\)](#)
7. A. Capozzi and D. Lupo and S. Solimini, On the existence of a nontrivial solution to nonlinear problem at resonance, *Nonlinear Analysis T.M.A.* **13** (1989), no. 2, 151–163. [MR0979038 \(90c:35086\)](#)
8. L. Cesari and R. Kannan, Qualitative study of a class of nonlinear boundary value problems at resonance, *J. Diff. Equations* **56** (1985), 63–81. [MR0772121 \(86g:47083\)](#)
9. R. Chiappinelli and J. Mawhin and R. Nugari, Bifurcation from infinity and multiple solutions for some Dirichlet problems with unbounded nonlinearities, *Nonlinear Analysis T.M.A.*, in press.
10. S. Chow and J. Hale, *Methods of Bifurcation Theory*, Springer-Verlag, 1982. [MR0660633 \(84e:58019\)](#)
11. D. Costa and Magalhães, A variational approach to subquadratic perturbations of elliptic systems, *J. Diff. Equations* **111** (1994), no. 1, 103–122. [MR1280617 \(95f:35082\)](#)

12. D. De Figueiredo and R. Chiappinelli, Bifurcation from infinity and multiple solutions for an elliptic system, *Differential and Integral Equations* **6** (1993), no. 4, 757–771. [MR1222299 \(94e:35025\)](#)
13. D. De Figueiredo and J. Gossez, Resonance below the first eigenvalue for a semilinear elliptic problem, *Math. Ann.* **281** (1988), 589–610. [MR0958261 \(90b:35083\)](#)
14. D. De Figueiredo and E. Mitidieri, A maximum principle for an elliptic system and applications to semilinear problems, *Siam. J. Math. Anal.* **17** (1986), 836–849. [MR0846392 \(87h:35111\)](#)
15. J. Gossez, Some nonlinear differential equations at resonance at first eigenvalue, *Conf. Sem. Mat. Univ Bari* **167** (1979), 355–389.
16. J. Hernández, Maximum principles and decoupling for positive solutions of reaction-diffusion systems, *Oxford University Press, K. J. Brown and A. Lacey eds*, 1990, 199–224. [MR1086647 \(92a:35001\)](#)
17. Hoang, Quoc Toan, *On a system of semilinear elliptic equations on an unbounded domain*, to appear in Vietnam Journal of Mathematics. cf. [MR 2006h:35060](#)
18. Hoang, Quoc Toan and Ngô, Qu oc Anh, *Existence of positive solution for a system of semilinear elliptic differential equations on an unbounded domain*, submitted to NoDEA.
19. R. Iannacci and M. Nkashama, Nonlinear boundary value problems at resonance, *Nonlinear Analysis T.M.A.* **11** (1987), 455–473. [MR0887655 \(88e:47107\)](#)
20. R. Iannacci and M. Nkashama, *Nonlinear second order elliptic partial differential equations at resonance*, Report 87–12, Memphis State University, 1987.
21. M. Krasnosels’kii and F. Zabreico, *Geometrical Methods of Nonlinear Analysis*, Springer-Verlag, 1984. [MR0736839 \(85b:47057\)](#)
22. E. Landesman and A. Lazer, Nonlinear perturbation of elliptic boundary value problems at resonance, *J. Math. Mech.* **19** (1970), 609–623. [MR0267269 \(42 #2171\)](#)
23. A. Lazer and P. J. McKenna, On steady-state solutions of a system of reaction-diffusion equations from biology, *Nonlinear Analysis T.M.A.* **6** (1982), 523–530. [MR0664014 \(83h:35014\)](#)
24. D. Lupo and S. Solimini, A note on a resonance problem, *Proc. Royal Soc. Edinburgh* **102 A** (1986), 1–7. [MR0837156 \(87m:35095\)](#)
25. J. Mawhin, *Bifurcation from infinity and nonlinear boundary value problems, in ordinary and partial differential equations*, vol. II, Sleeman and Jarvis eds, Longman, Ifarlow, 1989, 119–129. [MR1031727 \(90j:58029\)](#)
26. J. Mawhin and K. Schmitt, Landesman-Lazer type problems at an eigenvalue of odd multiplicity, *Results in Math.* **14** (1988), 138–146. [MR0956010 \(89m:35080\)](#)
27. J. Mawhin and K. Schmitt, Nonlinear eigenvalue problems with the parameter near resonance, *Ann. Polon. Math.* **51** (1990), 241–248. [MR1093994 \(92d:34046\)](#)
28. Ngô, Qu oc Anh, *College graduation thesis*, Hà Nội - Việt Nam, 2005.
29. Ngô, Qu oc Anh, *Existence of positive solution of semilinear elliptic equations on a bounded domain*, in preparation.
30. L. Nirenberg, *Topics in nonlinear functional analysis*, New York, 1974. [MR1850453 \(2002j:47085\)](#)
31. P. Omari and F. Zanolin, A note on nonlinear oscillations at resonance, *Acta Math. Sinica* **3** (1987), 351–361. [MR0930765 \(89c:34039\)](#)

32. P. Rabinowitz, *Minimax methods in critical point theory with applications to differential equations*, CBMS 65 Regional Conference Series in Math, A.M.S., 1986. [MR0845785 \(87j:58024\)](#)
33. F. Rothe, Global existence of branches of stationary solutions for a system of reaction-diffusion equations from biology, *Nonlinear Analysis T.M.A.* **5** (1981), 487–498. [MR0613057 \(82f:35019\)](#)
34. M. Schechter, Nonlinear elliptic boundary value problems at resonance, *Nonlinear Analysis T.M.A.* **14** (1990), no. 10, 889–903. [MR1055536 \(92b:35063\)](#)
35. J. Smoller, *Shock Waves and Reaction-Diffusion Equations*, Springer-Verlag, 1983. [MR0688146 \(84d:35002\)](#)
36. S. Solimini, On the solvability of some elliptic partial differential equations with the linear part at resonance, *J. Math. Anal. Appl.* **117** (1986), 138–152. [MR0843010 \(87g:35094\)](#)
37. C. Vargas and M. Zuluaga, On a nonlinear Dirichlet problem type at resonance and bifurcation, *PDEs, Pitmat research, Notes in Mathematics*, **273** (1992), 248–252.
38. C. Vargas and M. Zuluaga, A nonlinear elliptic problem at resonance with a nonsimple eigenvalue, *Nonlinear Analysis T.M.A.* (1996), 711–721. [MR1399070 \(97f:35075\)](#)
39. M. Zuluaga, A nonlinear elliptic system at resonance, *Dynamic Systems and Applications* **3** (1994), no. 4, 501–510. [MR1304129 \(95j:35066\)](#)
40. M. Zuluaga, Nonzero solutions of a nonlinear elliptic system at resonance, *Nonlinear Analysis T.M.A.* **31** (1996), no. 3/4, 445–454. [MR1487555 \(98k:35063\)](#)
41. M. Zuluaga, On a nonlinear elliptic system: resonance and bifurcation cases, *Comment. Math. Univ. Carolinae*, **40** 4 (1999), 701–711. [MR1756546 \(2001c:35089\)](#)

Note: This list reflects references listed in the original paper as accurately as possible with no attempt to correct errors.

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