

LIST OF PUBLISHED PAPERS

Sr.No.	Author	Title	Published in
1.	Vaidya P.C.	The external Field of a Radiating Star in General Relativity.	Current Science <u>12</u> , 183 (1943)
2.	Vaidya P.C.	Spherically Symmetric Line-elements used in General Relativity.	Journ.Uni.B'bay. <u>14</u> Part III 4-6 (1945)
3.	Narlikar V.V. and Vaidya P.C.	A Spherically Symmetric Nonstatic Electromagnetic Field.	Nature 159,642 (1947)
4.	Narlikar V.V. and Vaidya P.C.	A Non Static Electromagnetic Field with Spherical symmetry.	Proc.Nat.Inst.Sc. (India), <u>14</u> , 53-54 (1948).
5.	Vaidya P.C.	A Radiation absorbing Centre in a non-statical Homogeneous Universe.	Nature <u>166</u> , (565). (1950)
6.	Vaidya P.C.	The Gravitational Field of a Radiating Star.	Proc.Indian Acad. Sc. <u>33</u> , 264-276 ('51).
7.	Vaidya P.C.	Radiation-Absorbing Systems.	Proc.Nat.Acad.Sc. (India). <u>A21</u> , 193-204. ('51)
8.	Vaidya P.C.	Non Static solutions of Einstein's Field Equations for Spheres of Fluids.	Phys.Rev. <u>83</u> , 10-17. (1951)
9.	Vaidya P.C.	Energy of an Isolated Fluid Sphere.	Current Science <u>21</u> , 96 (1952).
10.	Vaidya P.C.	Equations of Fit for Spherical Distributions.	Current Science <u>21</u> , 96 (1952)
11.	Vaidya P.C.	Newtonian Time in General Relativity.	Nature. <u>171</u> , 260 (1953)
12.	Vaidya P.C.	The Boundary Conditions in Gravitational Fields of Spherical Symmetry.	Journal.Uni.of Bombay. Part III <u>21</u> , 1-7 (1952).
13.	Vaidya P.C.	The General Relativity Field of a Radiating Star.	Bull.Calcutta.Math Soc. <u>47</u> , 77-80 (1955).
14.	Vaidya P.C.	The Spherically Symmetric Solutions in Non-Symmetrical Field Theories I.The Skew Symmetric Tensor.	Phys.Rev. <u>90</u> , 695-98 (1953).

15. Vaidya P.C. Spherically Symmetric Solutions in Non-Symmetrical Field Theories. II. Phys. Rev. 96, 695-98 (1953).
16. Vaidya P.C. A New Nonstatic Spherically symmetric Solution of Einstein's unified field theory. Proc. Phys. Soc. A68, 260-262 (1955)
17. Vaidya P.C. and Shah K.B. Influence of Expanding Space on Gravitational Fields surrounding Individual stars. Nature 177, 802. (1956).
18. Vaidya P.C. and Shah K.B. A Radiating Mass Particle in an Expanding Universe. Proc. Nat. Inst. Sc. (India) 23, 534-539. (1958).
19. Vaidya P.C. and Shah K.B. Effect of Conversion of Matter into Radiation on the Curvature of an expanding universe. Current Science. 28, 399-400 (1959).
20. Vaidya P.C. and Pandya I.M. Axially Symmetric Fields of Pure Radiation in the General Theory of Relativity. Proc. Nat. Inst. Sc. (India). 26A, 459-463. (1960)
21. Vaidya P.C. and Shah K.B. A Relativistic Model for a shell of flowing Radiation in homogeneous Universe. Proc. Theor. Physics. (Japan) 24, 111-125 (1960).
22. Vaidya P.C. and Pandya I.M. Radiation Gravitational and Electromagnetic. Current Science. 29, 268 (1960).
23. Vaidya P.C. Unified Gravitational and Electromagnetic waves. Prog. Theor. Physics. (Japan). 24, 305-314 (1961)
24. I.M. Pandya and P.C. Vaidya Wave Solutions in General Relativity. I. Proc. Nat. Inst. of Science. (India). 27, 620-624 (1962).
25. H.M. Raval and P.C. Vaidya A Note on Godel's Universe. Current Science. 34, 175 (1965).
26. J. Krishna Rao and P.C. Vaidya. Gravitational Radiation in Homogeneous cosmological Model with... negative construnt curvature. Proc. Camb. Phil. Soc. 61. (763-65. (1965).

27. H.M.Raval
and
P.C.Vaidya On Generalization of Godel's
Universe. Ann.Inst.Henri
Poincare.
4,129-140(1966)
28. P.C.Vaidya
and
I.M.Pandya Gravitational field of a
Radiating spheroid. Proc.Theor.Phys.
35,129-140(1966)
29. P.C.Vaidya An Analytical solution for
Gravitational collapse with
Radiation. The Astrophysical
Journal.
144,943-952(1966)
30. H.M.Raval
and
P.C.Vaidya On Godel Type Universe filled
with charged incoherent matter. Current Science
36, 7(1967).
31. P.C.Vaidya
and
Miss Y.P.Shah. The gravitational field of a charged
particle embedded in an expanding universe. Current Sci.
36, 120(1967)
32. Miss Y.P.Shah
and
P.C.Vaidya. Gravitational contraction of
charged fluid spheres. Annals Inst.of
Henri Poincare.
5, 3 219-224.
(1967)-
33. Miss Y.P.Shah
and
P.C.Vaidya. Gravitational field of a charged
particle embeded in homogeneous
universe. Tensor N.S.
19 , 191(1968).
34. P.C.Vaidya A Universe filled with black
body radiation. Current Science
37,191. (1968)
35. L.K.Patel
and
P.C.Vaidya A Note on rotating universe. Current Science.
July.20. (1969).
36. P.C.Vaidya Non static analogs of Schwazschild's
Interior Solution in General Relativity. 174,1615-20.
1968. Physc.Review
37. Mehra
Vaidya
Kushwaha. Gravitational field of a sphere
composed of concentric shells. Physc.Rev.
1969.

38. W.B. Bonnor
and
P.C. Vaidya Spherically Symmetric Radiation
of Charge in Einstein-Maxwell
Theory. GRG Journal
1, 127-130
39. L.K. Patel
and
P.C. Vaidya A Generalized Plane Wave Metric. Ann. Inst. Henri
Poincare,
A15, 169-175.
40. P.C. Vaidya Gravitational Field of a
Tachyon. Current Sc.
40, 651-652

(1) List of Publications

(2) Learned Societies with which associated:
at the end of the note

1942

1 The Equations of Fit in General Relativity

V. V. Narlikar and P. C. Vaidya

Curr. Sc. 11, 390-391, 1942

2. On a Lemma in the treatment of internal solutions in general relativity

P. C. Vaidya, V. V. Narlikar and G. K. Patwardhan

Current Science, 11, 391, 1942.

1943

3 Relativistic Distributions of matter of radial symmetry

G. K. Patwardhan and P. C. Vaidya

Journal of the Univ. of Bombay 12, Part III, 23-36

1943

1945

Some new relativistic distributions of
radial symmetry

V. V. Narlikar, G. K. Patwardhan and
P. C. Vaidya

4

Proc. Nat. Inst. Sc. of India 9, 229-236, 1943

The internal field of a radiating star
in general relativity

P. C. Vaidya

5

35

Current Science 12, 183, 1943

1945

Spherically symmetric line-elements used in
general relativity

P. C. Vaidya

6

Journal of the Univ. of Bombay, 14, Part III 4-6,
1945.

1947

7. A spherically symmetric non-static
electro-magnetic field

V. V. Narlikar and P. C. Vaidya

Nature, 159, 642, 1947

1948

8. Non-static electromagnetic fields with spherical
symmetry

V. V. Narlikar and P. C. Vaidya

Proc. Nat. Inst. Sc. (India) 14, 53-54, 1948

1950

9. A radiation-absorbing centre in a non-
static homogeneous universe

P. C. Vaidya

Nature, 166, 565, 1950

1951 5251

The gravitational field of a radiating
star

105

P. C. Vaidya

Proc. Indian Acad. Sc. 33, 264-276, 1951

Non static solutions of Einstein's field
equations for spheres of fluids
radiating energy.

11

P. C. Vaidya

Physical Review 83, 10-17, 1951

Radiation absorbing systems

12

P. C. Vaidya

Proc. Nat. Acad. Sc. (India)

21 A, 193-204, 1951

1952

13

2nd Paper: $\delta g_{\alpha\beta}$ (metric)

P. C. Vaidya

Current 32, 205-200, 1952.

14

Energy of an isolated fluid sphere

P. C. Vaidya

Current Science 21, 95-96, 1952

15

Equations of fit for spherical distributions

P. C. Vaidya

Current Sci. 21, 96, 1952

16

Boundary Conditions in gravitational fields
of spherical symmetry

P. C. Vaidya

Journal of the Univ. of Bombay 21, Part IV 1-7, 1952

1953

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32, 200-202, 2043

Newtonian time in general relativity

18

P. C. Vaidya

Nature, 171, 260, 1953.

Spherically symmetric solutions in non-
symmetrical field theories - I. The skew-
symmetric tensor

19

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P. C. Vaidya

Phys. Rev. 90, 695-698, 1953

1954

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Spherically symmetric solutions in non symmetric
field theories - II

P. C. Vaidya

Phys. Rev. 96, 5-9, 1954

1955

21

The general relativity field of a radiating

Star

P. C. Vaidya

Bull. Calcutta Math. Soc. 47, ~~77-80~~⁷⁷⁻⁸⁰, 1955

22

A new non-static spherically symmetric
solution of Einstein's unified field theory

P. C. Vaidya

Proc. Phys. Soc. 68, 260-262, 1955
(London)

1956

Influence of expanding space on the
gravitational fields surrounding individual
stars

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P. C. Vaidya and K. B. Shah

Nature 177, 802, 1956

1957

A radiating mass-particle in an
expanding universe

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P. C. Vaidya and K. B. Shah

Proc. Nat. Inst. Sci. (India) 23, 534-539, 1957

1958

सिद्धान्तकौमुदी
विहित, —, 58-59, 1958

25

1959

~~28~~ Effect of conversion of matter into radiation
on the curvature of an expanding universe

~~P. C. Vaidya and K. B. Shah~~

~~Current Science, 28, 399-400 1959.~~

25

ଅନୁସନ୍ଧାନ ବିଷୟରେ

ଡ. ଶ୍ରୀ. ଶ୍ରୀ

ସମ୍ବନ୍ଧରେ 39, 203-204, 2029।

1958

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ଅନୁସନ୍ଧାନ ବିଷୟରେ

ଡ. ଶ୍ରୀ. ଶ୍ରୀ

ସମ୍ବନ୍ଧରେ —, 48-49, 473-404

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ଅନୁସନ୍ଧାନ ବିଷୟରେ

ଡ. ଶ୍ରୀ. ଶ୍ରୀ

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1959

Effect of conversion of matter into radiation on the curvature of an expanding universe

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Curr. Sci. 35, 85-90, 1959

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Effect of Conversion of matter into radiation on the curvature of an expanding universe

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P. C. Vaidya and K. B. Shah

Curr. Sci. 28, 399-400, 1959.

1960

Radiation-gravitational and electromagnetic

P. C. Vaidya and I. M. Pandya

Curr. Sci. 29, 268, 1960

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A relativistic model for a shell of
flowing radiation in a homogeneous
universe

P. C. Vaidya and K. B. Shah

Progr. Theor. Phys. (Japan) 24, 111-125, 1960

32

Axially symmetric fields of pure
radiation in general theory of relativity

P. C. Vaidya and I. M. Pandya

Proc. Nat. Inst. Sci. (India) 26, A 459-463
1960

33

Regionen der Raumzeit mit
einer Strahlungsfeld

P. C. Vaidya

Gen. Relativ.

9030

1959

32 Form

34

$\gamma \cdot \frac{1}{2} \cdot \frac{1}{2}$

39 300-08, 2000.

1961

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Wave solutions in general relativity - I

I. M. Pandya and P. C. Vaidya

Proc. Nat. Inst. Sc. (India) 27, 620-624, 1961

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Unified Gravitational and Electromagnetic
Waves.

P. C. Vaidya

Progr. Theor. Phys (Japan) 25, 305-314
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37

Gravitation - Relativity - Geometry

P. C. Vaidya

School Science 2, 20-22, 1964

1964

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Gravitation - Relativity - Geometry

P. C. Vaidya

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Journal of Science, 82, 85-87, ~~88~~, 230-32, ~~33~~, 450-52. 1965

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P. C. Vaidya

School Science 4, 278-280, 1965

A Note on Gödel's universe

H. M. Rowal and P. C. Vaidya

Curr. Sc. 34, 175, 1965

Gravitational Radiation in homogeneous cosmological models with space sections of constant negative curvature

J. K. Rao and P. C. Vaidya

Proc. Camb. Phil. Soc. 61, 763-65, 1965

1962

Gravitational Radiation from a rotating mass

J. K. Rao

Gravitational Radiation from a rotating mass

1965

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Numbers - Geometry - Sets

P. C. Vaithya

Teacher Education 9, 1-5, 1965

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Effects of concrete and abstract aspects of
mathematics on its teaching 47

P. C. Vaidya

Educational Forum 11, 30-36, 1968

Expanding Frontiers of Science and our
universities 48

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24, 73-76, 1966

An Analytical Solution for gravitational
collapse with radiation 49

P. C. Vaidya

Astrophys. Journal 144, 943-952, 1966 22

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On generalizations of Gödel's universe

H. M. Kaval and P. C. Vaidya

Ann. Inst. Henri Poincaré 4, 21-29, 1966.

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Gravitational Radiation and the arrow of
time in cosmology

J. K. Rao and P. C. Vaidya

Ann. Inst. Henri Poincaré 5, 77-81, 1968

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Gravitational Field of a Radiating

Spheroid

P. C. Vaidya and I. M. Pandya

Progr. Theor. Phys. 35, 129-140, 1966.

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20th April 1967

M. J. H.

Attention please - 5 pages attached, ~~1959~~ 1967.

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Thank you ——— 31.33 1967

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Very much yours
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Thank you ——— 1967

Gravitational field of a charged particle
embedded in an Expanding Universe

59

P. C. Vaidya and Yashodhara P. Shah

27

Indr. Sc. 36, 120, 1967

On a Gödel type Universe filled with
charged incoherent matter

60

H. M. Raval and P. C. Vaidya

Indr. Sc. 36, 7, 1967

Gravitational Fields Outside radiating
distributions

61

P. C. Vaidya

Journ. of Math. and Phys. Sciences 1, 38-56
1967

1968

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Gravitational field of a charged particle
embedded in a homogeneous universe
4-3-68

Gravitational field of a charged particle
embedded in a homogeneous universe
4-3-68

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Gravitational Field of a charged particle
embedded in a homogeneous universe

Yashodhara P. Shah and P. C. Vaidya

Tensor 19, 191-194, 1968

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Nonstatic Analogs of Schwarzschild's Interior
Solution in General Relativity

P. C. Vaidya

Phys. Rev. 174, 5 1615-1620, 1968

1968

A Universe filled with black body radiation 65

P. C. Vaidya

curr. Sc. 37, 191, 1968

1969

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Gravitational Waves

P. C. Vaidya

Science to-day. Nov. 1969, pp. 9-14
(reprints not available, a copy of Science
to-day is available)

69

Expansion of a Radiating Metric

A. L. Mehra and P. C. Vaidya

Acta, Physica Acad. Sci. Hungarica

26, 339-344 1969

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A Note on rotating universes

L. K. Patel and P. C. Vaidya

Curr. Sci. 38, 334, 1969

Gravitational Field of a sphere composed
of concentric shells

71

A. L. Mehra, P. C. Vaidya, R. S. Kushwaha

Phys. Rev 186, 1333-1334 ~~1968~~ 1969.

1970

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Spherically Symmetric Radiation of charge
in Einstein - Maxwell Theory

W. B. Bonnor and P. C. Vaidya

GRG Journal 1, 127-130

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\int_{line} , 83, 325, 805, 805, 803 (2030)

1971

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A Generalized Plane Wave Metric

L. K. Patel and P. C. Vaidya

Ann. Inst. Henri Poincaré A 15, 169-175

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25

Gravitational Field of a Tachyon

P. C. Vaidya

Current Science 40, 651-652.

75(a)

A Simple Magnetic Universe

L. K. Patel and P. C. Vaidya Current Science 40, 288

76

વિદ્યુત્તંત્રના સ્થિતિસ્થિતિ ૨૦, ૨૨, ૨૨ - - - ૨૨

પ. સ. વૈદ્યા

જુલ ૪૫, ૨૪, ૨૪, ૨૦૫, ૨૩૫, ૨૩૦, ૨૨૫, ૨૨૩, ૩૨૨, ૪૨૫.

77

વિદ્યુત્તંત્રના સ્થિતિ - ૨ પ. સ. વૈદ્યા

વિદ્યુત્તંત્રના સ્થિતિ ૨, ૨૨.

78

વિદ્યુત્તંત્રના સ્થિતિ અને ગુરુત્વાકર્ષણ : પ. સ. વૈદ્યા

વિદ્યુત્તંત્રના સ્થિતિ અને ગુરુત્વાકર્ષણ : વિદ્યુત્તંત્રના સ્થિતિ. ૧૦૭૨

1972

79. Some Algebraically special Solutions of Einstein's Equations I : P. C. Vaidya

Tensor N.S. 24, 315-321, (1972)

80 Exact Solutions of The Einstein's Maxwell Equations For an Accelerated charge

H. B. Bonnor and P. C. Vaidya

Studies in Relativity: papers in Honour of J. L. Synge
editor L. O'Riada (Clarendon Press)

p. 119-132, (1972)

81 $\bar{g}_{\alpha\beta}$ $\bar{g}_{\alpha\beta}$ $\bar{g}_{\alpha\beta}$ $\bar{g}_{\alpha\beta}$

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83 ପ୍ରତିରାଜ୍ୟର ବିଜାପୁରୀ ବିଶ୍ୱାସୀଙ୍କୁ ଲେଖା: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ

ପ୍ରତିରାଜ୍ୟର ୧୧୮, ୧୦୫-୧୦୬, (୧୮୦୧)

84 ଶିକ୍ଷାବିତାଙ୍କୁ ଲେଖା-୧ ଧ. ଡ. ନିର୍ଦ୍ଦେଶ

ପ୍ରତିରାଜ୍ୟର ^{୧୮୫} ୧, ୧୦-୧୧, ୧୮୦୧

85 ପ୍ରତିରାଜ୍ୟର ବିଶ୍ୱାସୀଙ୍କୁ ଲେଖା: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ

ପ୍ରତିରାଜ୍ୟର: ୧୦, ୮୩, (୧୮୦୧)

86 ପ୍ରତିରାଜ୍ୟର ଲେଖା-୧: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ

ପ୍ରତିରାଜ୍ୟର: ୧୦, ୧୦୫-୧୦୬ (୧୮୦୧)

87 ପ୍ରତିରାଜ୍ୟର ବିଶ୍ୱାସୀଙ୍କୁ ଲେଖା: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ

୧. ଲେଖାବିତା ୨. ପ୍ରତିରାଜ୍ୟର ବିଶ୍ୱାସୀଙ୍କୁ ଲେଖା ୩. ପ୍ରତିରାଜ୍ୟର ଲେଖା
୪. ପ୍ରତିରାଜ୍ୟର ଲେଖା

ପ୍ରତିରାଜ୍ୟର ଲେଖା ବିଷୟରେ: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ, ଧ. ଡ. ନିର୍ଦ୍ଦେଶ, ୨୪-୨୬; ଧ. ଡ. ନିର୍ଦ୍ଦେଶ, ୩୨-୩୩

ପ୍ରତିରାଜ୍ୟର ଲେଖା ବିଷୟରେ: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ, ୩୦-୩୧

88 ପ୍ରତିରାଜ୍ୟର ଲେଖା: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ

ପ୍ରତିରାଜ୍ୟର ଲେଖା ବିଷୟରେ: ଧ. ଡ. ନିର୍ଦ୍ଦେଶ, ୩୦-୩୧

1973

89

~~A Generalized Kerr-Schild Solution~~

of Radiating Kerr Metric

P. C. Vaidya and L. K. Patel

Phys. Rev. D. 7, 3590-3593, (1973)

Some Algebraically Special Solutions of Einstein's equations II

P. C. Vaidya

Tensor (N.S.) 27, 276-280, (1973)

Paris Symposium on Gravitational Waves

P. C. Vaidya

Bulletin of the Astro. Soc. of India 1, 45, (1973)
(No reprints)

Energy of a Particle with spin

in a Kerr-Schild metric

P. C. Vaidya and L. K. Patel

92

93 ગુણવત્તાના સ્ત્રોતો. ય. ડી. એચ
અભ્યાસક્રમ 335. ગુ. 2003

94 સ્ત્રોતો ગણના - 2 ય. ડી. એચ
ગુણવત્તા, મુદ્ર 2003 92 1-4, 2003

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95 A Generalized Kerr-Schild Solution
of Einstein's Equations. P. C. Vaidya
Proc. Camb. Phil. Soc. 75, 383-390 (1973)

96 A Generalized Kerr-Schild Metric
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