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making string theory
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emphasizing the strong
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interested in learning
about this exciting
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DEVELOPMENTS 53

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Fields 55 Appendix A

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*Answers to the
Problems in 'A First
Course in String Theory'*

Using the expansion for
 e^{-t} , the first term in (1)
can be written as $\int_0^{\infty} dt e^{-t} z^{-1} = \int_0^{\infty} dt t^{-z-1} = \Gamma(-z)$
 $\Gamma(-z) = \sum_{n=0}^{\infty} \frac{(-1)^n}{n!} \zeta(z+n)$. (2)

Note that in the sum the

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$(z) > ? n$. If we remove

the first N terms, the

remaining sum from N

$+ 1$ to ∞ will converge

for $(z) > ? (N + 1)$. We

thus rewrite (2) as $\int_0^1 dt$

$t z^{-1} ? n = N + 1 (\int_0^1 t)^n$

$n! + \int_0^1 dt t z^{-1} N n$

$= 0 (\int_0^1 t)^n n!$

Zwiebach, A First

Course in String

Theory, Solutions for ...

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String Theory Syllabus

Readings Lecture Notes

Assignments ... A First

Course in String

Theory. New York, NY:

Cambridge University

Press, 2004. ISBN:

9780521831437.

Additional Reference.

Syllabus | String Theory

for Undergraduates |

Physics ...

Alternative Title: string

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Stringcourse, in
architecture, decorative
horizontal band on the

exterior wall of a

building. Such a band,
either plain or molded,

is usually formed of
brick or stone. The

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virtually every style of

Western architecture,

from Classical Roman
through Anglo-Saxon

and Renaissance to

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about this exciting
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Theory 2, Zwiebach,

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in string theory by
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introductory statistical
physics. Some

familiarity with

Lagrangian mechanics

is useful but not

indispensable. Except

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chapters contain

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