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Chemical Principles in the Laboratory [by] Emil J. Slowinski, William L. Masterton
[and] Wayne C. Wolsey

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edited by*

CINDY TRISTEN

CHEMICAL PRINCIPLES IN THE LABORATORY

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Green chemistry involves
designing novel ways to
create and synthesize
products and implement
processes that will

eliminate or greatly
reduce negative
environmental impacts.
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provides educational
laboratory materials that
challenge students with
the customary topics
found in a general
chemistry laboratory
manual, while
encouraging them to

investigate the practice of
green chemistry.
Following a consistent
format, each lab
experiment begins with
objectives and prelab
questions highlighting
important issues that
must be understood prior
to getting started. This is
followed by detailed step-
by-step procedures for
performing the
experiments. Students

report specific results in sections designated for data, observations, and calculations. Once each experiment is completed, analysis questions test students' comprehension of the results. Additional questions encourage inquiry-based investigations and further research about how green chemistry principles compare with traditional, more hazardous experimental methods. By placing the learned concepts within the larger context of green chemistry principles, the

lab manual enables students to see how these principles can be applied to real-world issues. Performing laboratory exercises through green experiments results in a safer learning environment, limits the quantity of hazardous waste generated, and reduces the cost for chemicals and waste disposal. Students using this manual will gain a greater appreciation for green chemistry principles and the possibilities for future use in their chosen careers.

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BY EMIL J.**

HarperCollins
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