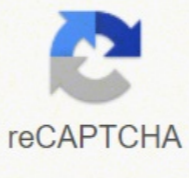
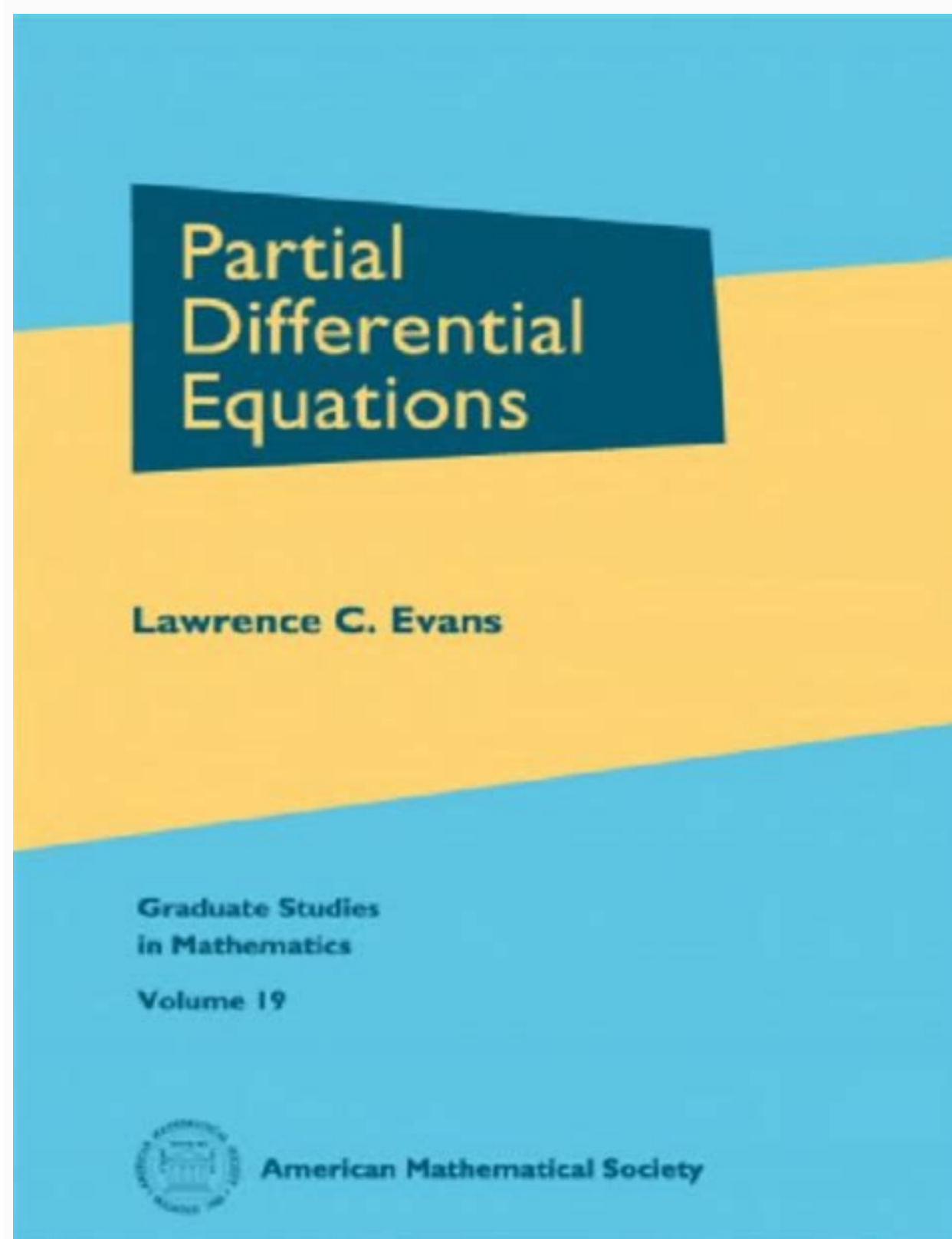




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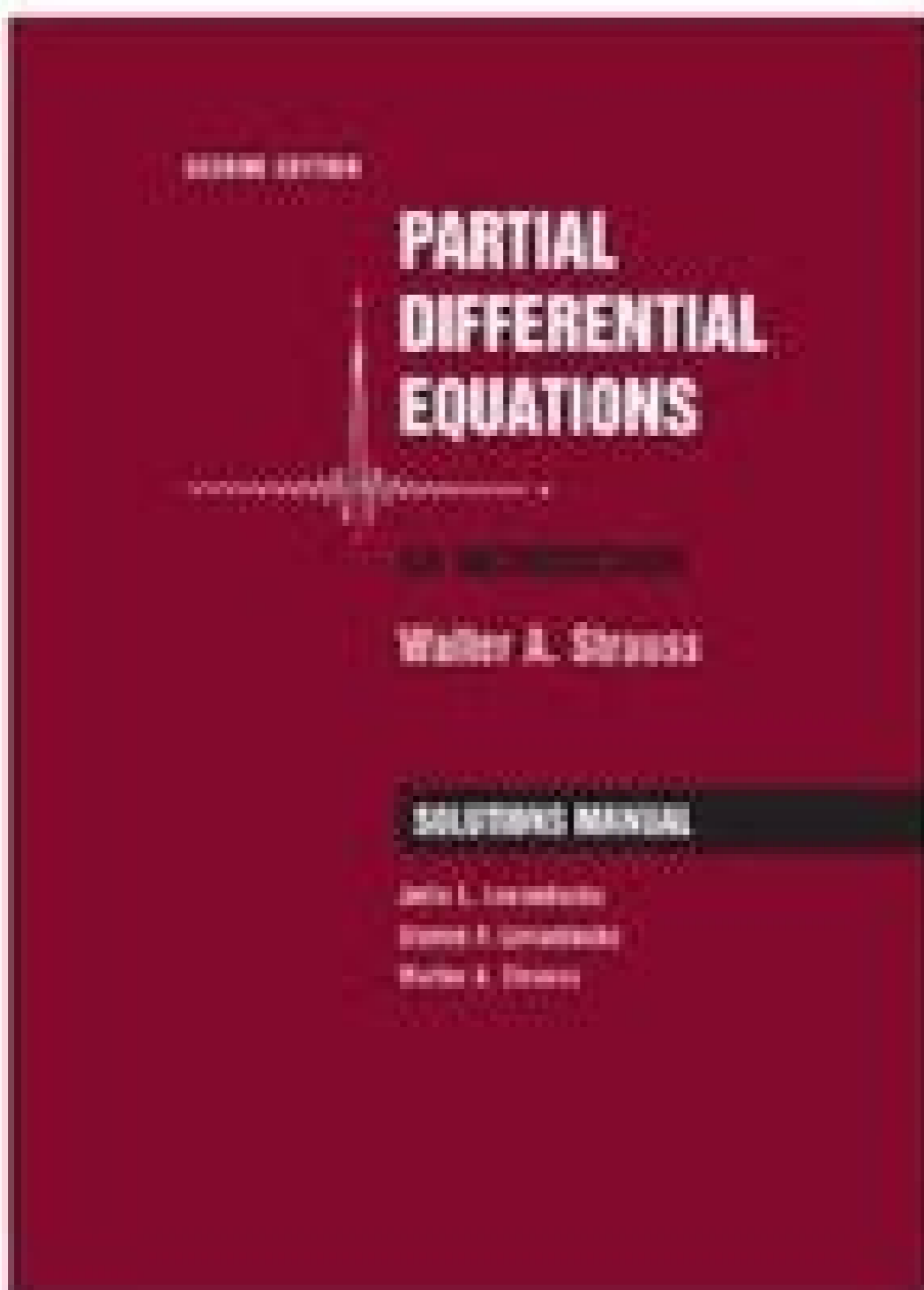


# Partial Differential Equations

Lawrence C. Evans

Graduate Studies  
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SECOND EDITION

# PARTIAL DIFFERENTIAL EQUATIONS

AN INTRODUCTION

Walter A. Strauss

SOLUTIONS MANUAL

John F. Toland  
Walter A. Strauss  
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## EXACT SOLUTIONS OF SOME NONLINEAR SYSTEMS OF PARTIAL DIFFERENTIAL EQUATIONS BY USING THE FUNCTIONAL VARIABLE METHOD

HOSSEIN AMINKHAH, A.H. BEFAHI SHEKHANI, and HADI REZAZADEH

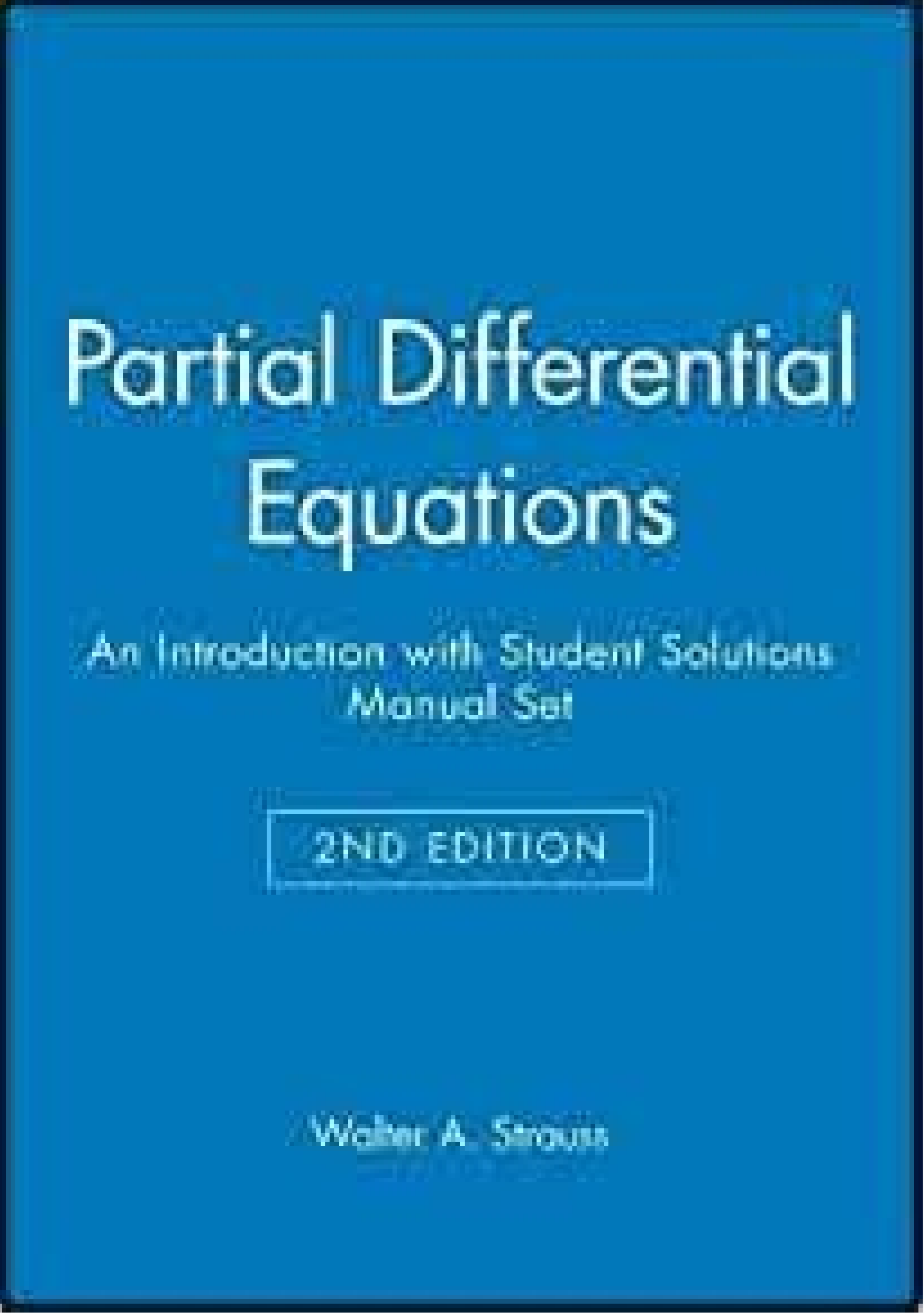
**Abstract.** In this paper, we will employ the functional variable method for solving some nonlinear systems of partial differential equations which are very important in applied sciences, namely, the generalized Drinfeld-Sokolov-Wilson system, Burgers-Klein-Gordon equations and Davey-Stewartson equations. This approach provides a more powerful mathematical tool for solving nonlinear differential equations which can be converted to a second-order ordinary differential equation through the travelling wave transformation.

**MSC 2010.** 35C15, 74J35, 93C10.

**Key words.** Functional variable method, Generalized Drinfeld-Sokolov-Wilson system, Burgers-Klein-Gordon equations, Davey-Stewartson equations, Nonlinear system.

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