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this book traces the history of the mit department of mathematics one of the most important mathematics

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the boundary element method for engineers and scientists theory and applications is a detailed introduction to the principles and use of boundary element method bem enabling this versatile and powerful computational tool to be employed for engineering analysis and design in this book dr katsikadelis presents the underlying principles and explains how the bem equations are formed and numerically solved using only the mathematics and mechanics to which readers will have been exposed during undergraduate studies all concepts are illustrated with worked examples and problems helping to put theory into practice and to familiarize the reader with bem programming through the use of code and programs listed in the book and also available in electronic form on the book s companion website offers an accessible guide to bem principles and numerical implementation with worked examples and detailed discussion of practical applications this second edition features three new chapters including coverage of the dual reciprocity method drm and analog equation method aem with their application to complicated problems including time dependent and non linear problems as well as problems described by fractional differential equations companion website includes source code of all computer programs developed in the book for the solution of a broad range of real life engineering problems

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