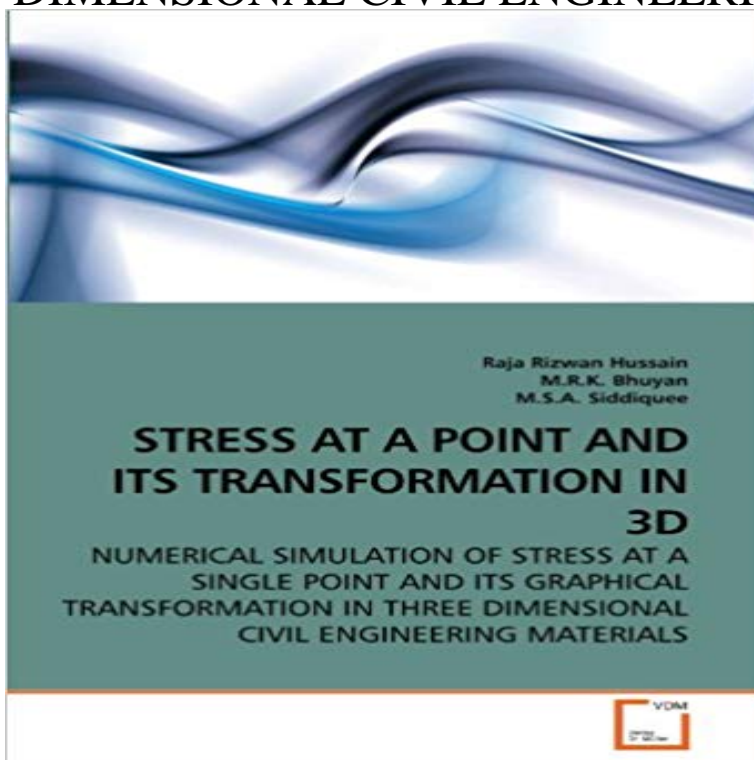


STRESS AT A POINT AND ITS TRANSFORMATION IN 3D: NUMERICAL SIMULATION OF STRESS AT A SINGLE POINT AND ITS GRAPHICAL TRANSFORMATION IN THREE DIMENSIONAL CIVIL ENGINEERING MATERIALS



in the book, software has been developed especially for educational or learning purpose. This software is about stress which is one of the leading important phenomena in the field of civil engineering. This book is based on a software which will show the stress components in graphics as well as its transformation. Any point inside the mass or inside any structure has to face both normal and shear stresses from each of the three directions. This can be represented by a cube which has infinitesimal volume stressed from each of the three directions (both shear and normal stresses). For any given state of stresses, the cube can be rotated about any of the three axes. While rotation is applied, the value of stresses is changed in respect to the default axes. This software will find the maximum normal stresses with the direction cosines of principal planes that contain these principal stresses as well as maximum value of shear. It will also show the state of stresses while rotation is applied to the cube. The user will rotate the cube and will see how the state of stresses upon the cube are changed both graphically and algebraically

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