Elasticity and Plasticity, by J.N. Goodier and P.G. Hodge Jr. Surveys in Applied Mathematics I. John Wiley and Sons, New York, 1958. 152 pages. $6.25.

The first volume in the series of surveys in applied mathematics which, in the words of the foreword by F. Joachim Weyl, is to widen the scope and fabric of the incomplete picture presented by a study of Western literature alone, demonstrates the great difficulty to be experienced in meeting this objective under such broad headings as those of Elasticity and Plasticity. This aspect combined with the vigorous activity in these fields in Russia over many years condemned this endeavour in the present form to partial failure before it was initiated.

Those areas and publications which are covered by the surveys have received the greatest possible care and understanding as was to be expected on the part of its renowned authors. However, there are some gaps and omissions. On the other hand material has been included which may be considered part of the Western literature by now. Thus, while the reader will find much useful information, he should not assume that he is fully and infallibly informed on the subjects of this volume.

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Numerical Analysis and Partial Differential Equations. 1. Contemporary State of Numerical Analysis by G.E. Forsythe. 2. Partial Differential Equations, by P.C. Rosenbloom. Surveys in Applied Mathematics V, John Wiley and Sons, New York, 1958. 204 pages. $7.50.

1. After a non-technical discussion about content, background and literature of numerical analysis as developed at different centres, in particular Russian, including a survey on automatic computers, there follows a brief description of some more recent developments with references to a bibliography containing 86 items.

2. The second part of the book is organized in a different way. Here are the chapter headings: I. Partial differential equations in the complex domain. II. General theory in the real domain. III. General theory of equations with constant coefficients. IV. Equations of parabolic type. V. Equations of elliptic type. In each chapter there are some details as well as references to the extensive bibliography of 738 items. There is also an index of authors and terms at the end of the volume.

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