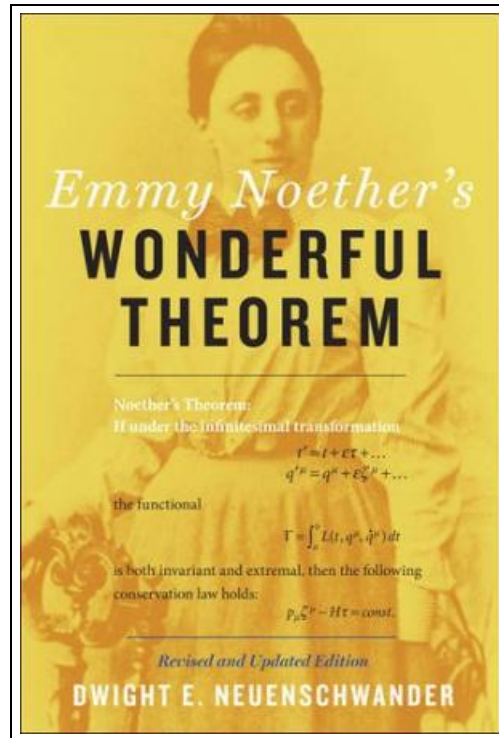


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EMMY NOETHER S WONDERFUL THEOREM (PAPERBACK)



JOHNS HOPKINS UNIVERSITY PRESS, United States, 2017. Paperback. Condition: New. revised and updated edition. Language: English . Brand New Book. In the judgment of the most competent living mathematicians, Fraulein Noether was the most significant creative mathematical genius thus far produced since the higher education of women began. -Albert EinsteinThe year was 1915, and the young mathematician Emmy Noether had just settled into Goettingen University when Albert Einstein visited to lecture on his nearly finished general theory of relativity. Two leading mathematicians of the day, David Hilbert and Felix Klein, dug into the new theory with gusto, but had difficulty reconciling it with what was known about the conservation of energy. Knowing of her expertise in invariance theory, they requested Noether s help. To solve the problem, she developed a novel theorem, applicable across all of physics, which relates conservation laws to continuous symmetries-one of the most important pieces of mathematical reasoning ever developed.Noether s first and second theorem was published in 1918. The first theorem relates symmetries under global spacetime transformations to the conservation of energy and momentum, and symmetry under global gauge transformations to charge conservation. In continuum mechanics and field theories, these conservation laws are expressed as equations of continuity. The second theorem, an extension of the first, allows transformations with local gauge invariance, and the equations of continuity acquire the covariant derivative characteristic of coupled matter-field systems. General relativity, it turns out, exhibits local gauge invariance. Noether s theorem also laid the foundation for later generations to apply local gauge invariance to theories of elementary particle interactions. In Dwight E. Neuenschwander s new edition of Emmy Noether s Wonderful Theorem, readers will encounter an updated explanation of Noether s first theorem. The discussion of local gauge invariance has been expanded into a detailed presentation of the...



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