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function is a functional equation, $f(x) = f(-x)$, that is encountered as soon as the notion of a function is introduced. At the other extreme, in the forefront of research, during the last two to three decades, the celebrated Young-Baxter functional equation has been at the heart of many different areas of math-

INTRODUCTION TO FUNCTIONAL EQUATIONS

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Introduction to Functional Equations - Evan Chen

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He is considered to be the founder of the celebrated Polish school of functional equations and inequalities. "The second half of the title of this book describes its contents adequately. Probably even the most devoted specialist would not have thought that about 300 pages can be written just about the Cauchy equation (and on some closely related equations and inequalities).

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Abstract. There are different types of functional differential equations (FDEs) arising from important applications: delay differential equations (DDEs) (also referred to as retarded FDEs [RFDEs]), neutral FDEs (NFDEs), and mixed FDEs (MFDEs). The classification depends on how the current change rate of the system state depends on the history (the historical status of the state only or the historical change rate and the historical status) or whether the current change rate of the system ...

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one of the eigenfunctions of Equation 1, is the expectation value of H , that is; $\langle \psi | H | \psi \rangle = \int \psi^* H \psi dr$ Equation 4 The notation $\langle \psi | H | \psi \rangle$ emphasises the fact that the energy is a functional of the wavefunction. The energy is higher than that of the ground state unless ψ corresponds to E_0 – which is the variational theorem; $E[\psi] \geq E_0$ Equation 5

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