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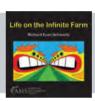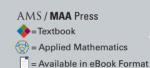
⬡ = Applied Mathematics

▯ = Available in eBook Format

Journey into Discrete Mathematics

AMS / **MAA** Press ◆ ▯

Owen D. Byer, *Eastern Mennonite University, Harrisonburg, VA*, **Deirdre L. Smeltzer**, *Eastern Mennonite University, Harrisonburg, VA*, and **Kenneth L. Wantz**, *Regent University, Virginia Beach, VA*

Journey into Discrete Mathematics promotes development of a mathematical mindset and prepares students for further study and is designed for use in a first course in mathematical abstraction for early-career undergraduate mathematics majors.

MAA Textbooks, Volume 41; 2018; approximately 389 pages; Hardcover; ISBN: 978-1-4704-4696-3; List US$75; Individual member US$56.25; MAA members US$56.25; Order code TEXT/41

Mathematical and Computational Methods in Photonics and Phononics

▯ ⬡

Habib Ammari, *ETH, Zürich, Switzerland*, **Brian Fitzpatrick**, *ETH, Zürich, Switzerland*, **Hyeonbae Kang**, *Inha University, Incheon, Korea*, **Matias Ruiz**, *École Normale Supérieure, Paris, France*, **Sanghyeon Yu**, *ETH, Zürich, Switzerland*, and **Hai Zhang**, *HKUST, Clear Water Bay, Hong Kong*

This book reviews new and fundamental mathematical tools, computational approaches, and inversion and optimal design methods to address challenging problems in photonics and phononics.

Mathematical Surveys and Monographs, Volume 235; 2018; 509 pages; Hardcover; ISBN: 978-1-4704-4800-4; List US$135; AMS members US$108; MAA members US$121.50; Order code SURV/235

A Tour of Representation Theory

◆ ▯

Martin Lorenz, *Temple University, Philadelphia, PA*

Adopting a panoramic viewpoint, this book offers an introduction to four different flavors of representation theory: representations of algebras, groups, Lie algebras, and Hopf algebras.

Graduate Studies in Mathematics, Volume 193; 2018; 654 pages; Hardcover; ISBN: 978-1-4704-3680-3; List US$94; AMS members US$75.20; MAA members US$84.60; Order code GSM/193

Never a Dull Moment
Hassler Whitney, Mathematics Pioneer

AMS / **MAA** Press ▯

Keith Kendig, *Cleveland State University, OH*
This biography is a revealing portrait of a fascinating personality and a titan of twentieth-century mathematics, Hassler Whitney.

Spectrum, Volume 93; 2018; approximately 381 pages; Softcover; ISBN: 978-1-4704-4828-8; List US$60; Individual member US$45; MAA members US$45; Order code SPEC/93

Life on the Infinite Farm ▯

Richard Evan Schwartz, *Brown University, Providence, RI*
In *Life on the Infinite Farm*, mathematician and award-winning children's book author Richard Schwartz teaches about infinity and curved space through stories of whimsical farm animals.

2018; 176 pages; Softcover; ISBN: 978-1-4704-4736-6; List US$25; AMS members US$20; MAA members US$22.50; Order code MBK/115

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